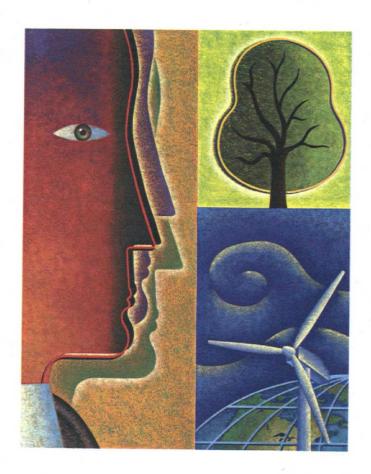


Remedial Action Progress Report (RAPR) for 4th Quarter 2007

L.E. Carpenter & Company, Borough of Wharton, Morris County, New Jersey

USEPA ID No. NJD002168748

January 2008







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January 2008

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Section 1 Introduction

RMT, Inc. (RMT), on behalf of our client, has prepared this Remedial Action Progress Report (RAPR) for the L.E. Carpenter and Company (LEC) ("site") located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey (Figure 1). Quarterly monitoring events and associated progress reports are completed and submitted to New Jersey Department of Environmental Protection (NJDEP) to comply with paragraph 35 of the 1986 Administrative Consent Order (ACO) issued to LEC by the NJDEP. We provide a summary of activities completed during the fourth quarter of 2007 (4Q07), including but not limited to, (1) the continued quarterly Contaminant of Concern (COC) and Monitored Natural Attenuation (MNA) groundwater monitoring of both the MW19/Hot Spot 1 area and source reduction remedial area, (2) surface water quality assessments of the drainage ditch and Rockaway River, and (3) hydrogeologic and hydrologic assessments of shallow site groundwater and adjacent surface water bodies.

We have certified this report in accordance with requirements outlined in N.J.A.C 7:26E-1.5 (Appendix A).

RMT conducted the following tasks during the 4Q07:

Quarterly monitoring of both the MW19/Hot Spot 1 area, the source reduction area, and adjacent surface water bodies (i.e., Rockaway River and drainage ditch) as required under the 1986 ACO, and as proposed in the Post Remedial Monitoring Plan (PRMP) and various regulatory correspondence (Reference Sections 2 and 3).

Discussion of these activities is provided in the referenced sections.

Section 2 MW-19/Hot Spot 1 Area of Concern (AOC)

2.1 MW-19/Hot Spot 1 AOC Background

The MW-19/Hot Spot 1 [MW19/HS1] AOC is located immediately west of Building 9 in the northwest corner of the LEC site [North side of building 9. Figure 2]. This AOC is associated with two former 10,000-gallon underground storage tanks (UST E-3 and UST E-4 and associated piping), which contained waste methyl ethyl ketone (MEK) and pigments and MEK respectively.

The approximate locations of the former USTs and associated piping are presented on Figure 3. In accordance with the 1986 Administrative Consent Order (ACO), GeoEngineering, Inc. (GEI) and Roy F. Weston (Weston) conducted a site wide Remedial Investigation (RI) in 1990 and separated the L.E. Carpenter site into three areas. The MW19/HS1 AOC was contained in the area classified as Area III.

Four (4) test pits (TP-63 to TP-66) were excavated around the two USTs. Soil samples were collected from immediately above the water table (between 7 feet and 9 feet bgs) and analyzed for volatile organic compounds (VOCs), base neutral organics (BNO), and priority pollutant metals. No VOCs were detected above quantification limits and residual concentrations of cadmium were detected in TP-63. However, test pit sample results did identify elevated concentrations of bis (2-ethylhexyl) phthalate (DEHP). Subsequently, DEHP was identified as a primary MW19/HS1 area contaminant of concern (COC).

USTs E-3 and E-4 and visually impacted soil surrounding the USTs were removed from the site in 1991. A detailed account of site UST removal activities is presented in the *Final Technical Report for Tank Removal Operations* (Roy F. Weston, September 1991). In 1991, after tank removal activities had been completed, Weston installed groundwater monitoring well MW-19 in the area immediately adjacent to the excavation to determine whether groundwater had been impacted by previous operations conducted at the facility. The results of the groundwater sampling activities conducted at that time did not identify the presence of VOCs at concentrations above the method detection limits with the exception of 2-Butanone (MEK).

On November 30, 1994, Weston began the excavation of DEHP impacted soils in the MW19/HS1 AOC. Four (4) additional excavation events were conducted on December 6th, 12th 16th and 20th 2004 as a result of post excavation sampling results showing elevated concentrations of DEHP above site cleanup objectives at depth. The final size of the excavation was reportedly 70 feet

long, ranged from 16 to 33 feet in width, and had an average depth of 9 feet below grade. Approximately 190 cubic yards of soil were removed from the excavation in 4Q04. Based on a review of historical data presented in the report entitled *Second Quarter Progress Report* (Roy F. Weston, Inc., August 1996), post excavation sample analytical results for DEHP from the excavation sidewalls ranged in concentration from 0.24 mg/kg to 140 mg/kg. Some of which were in exceedence of the DEHP impact to groundwater soil cleanup criteria outlined in the 1994 ROD of 100 mg/kg. Post excavation confirmatory soil samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) were collected but did not show BTEX concentrations above site specific cleanup criteria. As a result no further excavation was performed in this area.

Documentation within the report entitled *Quarterly Progress Report* (Roy F. Weston, April 1995) outlining that the excavation was stopped within 5 ft of monitoring well MW-19 [presumably to avoid destruction of the well), within 6 ft of Building 9 to a total depth of 9 ft below ground level (bgl) to avoid potentially undermining the buildings foundation, suggests there is a possibility that contamination remains at depth which continues to act as the source of detected dissolved phase contamination in downgradient monitoring wells MW-19-5 and MW-19-7.

Quarterly groundwater sampling events conducted at MW-19 by Weston during first and second quarter 1995 identified the presence of benzene, toluene, ethylbenzene, and xylene (BTEX), in addition to MEK, at concentrations exceeding the NJDEP Groundwater Quality Standards (NJGWQS) stipulated in the ROD. In October 1996, Weston submitted a delineation plan to the NJDEP to further define the extent of VOC impact to groundwater and further delineate both VOC and DEHP impact to saturated and non-saturated soils in the MW19/HS1 AOC. Temporary monitoring wells were installed and sampled and soil samples were collected an analyzed. The results of chemical analyses performed on the groundwater samples collected from the temporary monitoring wells identified the presence of VOCs at concentrations similar to those identified in monitoring well MW-19 in 1995. Additionally, the soil samples collected at both borings B-3 and B-2A indicated DEHP concentrations of 790 mg/kg and 220 mg/kg respectively, exceeding the "Impact to Groundwater Soil Cleanup Objective" of 100 mg/kg outlined in the 1994 ROD.

RMT received approval of an additional MW19/HS1 area groundwater delineation plan in January 1998. Subsequently, in February 1998, RMT conducted a subsurface investigation that included the installation and sampling of an additional five (5) groundwater monitoring wells (MW19-1 through MW-19-5). VOC concentrations exceeding the NJGWQS were identified at MW19-1 (center of the plume); MW19-2; MW19 and at MW19-5. However, when compared to the VOC concentrations found during Weston's 1996 sampling (BW-1 through BW-9), significant reductions in the concentrations of VOCs were found at monitoring wells MW19 and MW19-2. As no remedial action had been performed (other as the 1994 soils excavation), it was

the beach.

concluded that natural attenuation of the volatile groundwater contaminants (toluene, ethylbenzene, xylene) was likely occurring. Groundwater samples were also analyzed for the presence of DEHP. DEHP concentrations exceeding NJGWQS were found at MW19-1 (center of the plume) and at MW19-5 (downgradient well).

The NJDEP letter dated July 15, 1998 required LEC to further delineate the downgradient extent of BTEX and DEHP impact to groundwater in the MW19/HS1 AOC and establish a clean zone for both parameters per the Technical Requirements for Site Remediation (N.J.A.C. 7:26E-4.4). RMT, on behalf of L.E. Carpenter, prepared an investigation workplan and submitted it to the NJDEP in November 1998. Per discussions and correspondence with the NJDEP (December 21, 1998), RMT was authorized to perform a groundwater screening investigation utilizing Hydropunch® or other similar methodology.

Off-site Hydropunch® sampling activities were performed on April 21, 1999. Significant difficulties advancing the Hydropunch® tool in the approved off-site locations were encountered due to the localized geology (large cobbles and boulders) seen at the LEC site. A total of twenty-four (24) advancement attempts were made, four (4) of which (HP-1 through HP-4) penetrated the water table. Results of the Hydropunch® investigation are documented in the report entitled MW-19/Hot Spot 1 Off-Site Subsurface Investigation (RMT, June 1999). Analytical results obtained from groundwater samples collected from the four (4) Hydropunch® locations did not reveal concentrations of either BTEX or DEHP above site specific cleanup criteria. This suggested that no off-site migration of contaminants of concern was occurring.

The NJDEP, in their comment letter regarding the 3rd Quarter 2005 Monitoring Report dated December 27, 2005, voiced their concern over the high levels of toluene detected in MW-19-5. In their letter, the NJDEP claimed free product must be present and requested a vapor intrusion evaluation be performed on both the north and south sides of Ross St. in accordance with the new NJDEP Vapor Intrusion Guidance Document dated October 2005, and updated March 2006.

RMT responded to the December 27, 2005 letter in the 4th Quarter Groundwater Monitoring Report dated February 2006. In that response, RMT pointed out that, according to the NJDEP's Vapor Intrusion (VI) Guidance Document (October 2005), a VI evaluation must be completed if a receptor is within 30 feet of a BTEX plume (or within 100 feet if product is present). RMT continued on to say that the site currently has no free product issue as evidenced by the use of oil-water interface probes in the most contaminated monitoring wells within the MW19/HS1 AOC (*i.e.*, MW-19, MW-19-5, and MW-19-7) none of which have ever generated any measurable free product. The lack of free product is also evidenced by the fact that all individual BTEX concentrations are well below each parameters solubility limit. However, part of LEC Building

9 lies within 30-feet of the area with residual soil and groundwater contamination, and therefore a soil vapor intrusion evaluation work plan was submitted in Section 4.4 of the 4th Quarter 2005 Quarterly Groundwater Monitoring Report.

The VI work plan was discussed with and approved by NJDEP during the conference call held on February 22, 2006. NJDEP formalized their approval to proceed with the scope of work outlined in the workplan in an email sent the same day. The soil gas investigation was performed on March 1 and 2, 2006. This investigation was documented in the report entitled Soil Gas Investigation in the MW19/Hot Spot 1 Area L.E. Carpenter & Company Borough of Wharton (RMT, May 2006).

Detectable soil gas constituents were collocated with the dissolved-phase concentrations in groundwater. Based on the groundwater hydraulics, and given Darcy's mathematical law governing groundwater flow, RMT concluded that groundwater with dissolved-phase concentrations of COC's cannot migrate directly north across Ross Street and therefore does not pose a risk to the Ross Street residences. The lack of risk from direct northward groundwater migration is also further substantiated by the lack of detectable COC's in both MW-19D and MW-19-8. However, as described in previous monitoring reports, the current groundwater flow direction suggests that the leading edge of the dissolved COC's in groundwater may be migrating northeasterly towards an empty lot adjacent to a Ross Street residence, which is the reason RMT installed an additional well (MW-19-12) as proposed in the approved PRMP. MW-19-12 was installed in 2Q06 (June 2006), and has never exhibited any detectable concentrations of COCs. Based on these and historic data, RMT did no recommend active remediation be considered for this area as natural attenuation processes are very strong, and based on currently available data no risk of exposure exists.

NJDEP provided comments on the May 2006 Soil Gas Investigation in their Notice of Deficiency (NOD) letter dated June 20, 2007. The NJDEP was concerned that a residual source of BTEX contamination existed in the MW19/HS1 AOC due to the high dissolved phase concentrations remaining in groundwater 15 years after initial source removal actions occurred [i.e., UST and piping removal and remedial excavation], and subsequently required LEC to prepare and submit a Remedial Action Selection Report [RASR] within 30 days following receipt of the letter. RMT responded with a 45-Day extension request for RASR submittal in the letter dated July 17, 2007. The 45-Day RASR extension was approved by NJDEP as outlined in their emailed letter dated July 27, 2007. The MW19/HS1 AOC preliminary RASR was submitted to NJDEP and USEPA for review on September 4, 2007 in accordance with the 45-Day RASR extension letter.

2.2 MW19/Hot Spot 1 Source Investigation

As outlined in the RASR, RMT conducted a remedial investigation (RI) between the dates of August 14 and 17, 2007. RMT advanced a total of nine (9) soil borings [SB-07-01 through SB-07-09] to further evaluate and define the nature and extent of potential residual contamination acting as a continuing source of shallow groundwater impact.

2.2.1 Building 9 Infrastructure and Interior Boring Locations

Three (3) of the borings [SB-07-01, 02 and 03] were installed within the western interior of Building 9, into the sub slab vadose and saturated zones. These three borings were located with a bias towards the presence of former Building 9 process infrastructure relating to USTs E-3 and 3-4. Specifically, two trench drains [Drain #1 and Drain #2] and associated connection piping were identified in the northwestern corner of Building 9 adjacent to the concrete loading dock. Drain #1 is located close to the western wall of Building 9 and formally connected the drain system to the two exterior USTs. Drain #1 connection piping to the USTs was removed and the Drain #1 discharge hole sealed with concrete grout during tank removal operations in 1990/1991. Evidence of a 2 feet wide concrete filled trench [assumed to formally house piping connecting Drains #1 and #2] was also discovered during Building 9 evaluations. This concrete filled trench extended approximately 40-feet east from Drain #1 and connected to Drain #2.

2.2.2 Exterior Boring Locations

The remaining six (6) boring locations [SB-07-04 through SB-07-09] were installed on the western exterior of Building 9. Borings SB-07-04 and 06 were installed between the soils remaining east of the former 1994 UST soil excavation, and the Building 9 footer. These two boring locations were also biased towards former piping runs connecting Drain #1 to USTs E-3 and E-4. Boring SB-07-08 was also installed between the soils remaining east of the former 1994 UST soil excavation and the Building 9 footer but further south [upgradient] into an area that would define a lateral clean zone based on field screening. Boring SB-07-05, 07, and 09 were installed in areas specific to the 1994 UST soil excavation lateral extents and downgradient monitoring well MW-19-5 monitoring well [Boring 09], within the former UST excavation footprint [Boring SB-07-07], and at the leading edge of the soils remaining east of the former 1994 UST soil excavation and the Building 9 loading dock [downgradient] from the trench drain system located with Building 9.

Following implementation of the RMT, RMT concluded that a residual deep vadose/smear zone source of MW19/HS1 groundwater contamination exists on the western side of Building 9 between the former UST excavation and the Building 9 footer, and along the northern perimeter

of the former UST excavation. In addition, this residual source extends at least 40-feet east underneath the Building 9 footer and floor slab to Drain #2.

2.3 Implementation of the Revised Monitored Natural Attenuation Protocol

In a letter dated January 15, 2004, United States Environmental Protection Agency (USEPA) requested LEC implement the approved May 2001 MNA work plan. Prior to that time, LEC implemented only the low-flow sampling protocols outlined in the MNA work plan at existing monitoring locations. During the second quarter 2004 (2Q04) sampling event, LEC began implementing all aspects of the MNA work plan (i.e., low-flow sampling coupled with full MNA analysis, etc.) at existing monitoring locations. In preparation for the source reduction remedial action, a number of monitoring wells located east of the rails-to-trails were abandoned. During the January 6, 2005 source remediation preconstruction meeting, USEPA requested quarterly MNA activities be continued in the MW19/Hot Spot 1 area located at the far west corner of the LEC site [outside of the source reduction footprint] until the source reduction remedial action was complete and a new approved site-wide monitoring well network was installed. In a letter dated January 13, 2005, RMT revised the MNA monitoring program due to the modifications made to the LEC site groundwater-monitoring network. A copy of the revised MNA sampling protocol was presented as Appendix D in the first quarter of 2005 (1Q05) monitoring report.

A Post Remedial Monitoring Plan [PRMP] [RMT, October 14, 2005] was prepared following completion of the source reduction remediation. Preparation and submittal of the PRMP was required as a condition for approval of the Remedial Action Work Plan (RAWP) for Source Reduction [RMT, April 2004]. Following a regulatory comment and response period [February to March 2006], the PRMP was approved for implementation at LEC by both NJDEP and USEPA. All PRMP proposed monitoring points, with the exception of five (5) monitoring wells located in a wetland area east of LEC [the Wharton Enterprise Property], were installed between the dates of June 5 and June 16, 2006. The five (5) wetland wells require installation permits [GP-14 and minor modification to Stream Encroachment Permit] from the NJDEP Land Use Regulation Program [LURP]. The GP-14 and mmSEP permit applications were submitted on August 14, 2006 and March 23, 2007 respectively but no installation permits have been received to date [Ref. Section 5.1]. All aspects of the approved 2001 MNA work plan have been incorporated into the quarterly monitoring events conducted at existing LEC PRMP monitoring locations. Once LURP permits are secured and the remaining five (5) PRMP wetland monitoring wells are installed, RMT will incorporate the sampling protocols outlined in the 2001 MNA work plan at all site monitoring locations.

2.4 Sampling Methodology

RMT conducted the 4Q07 groundwater monitoring activities December 3 through December 6, 2007. We performed groundwater monitoring in accordance with the procedures contained in the NJDEP's *Field Sampling Procedures Manual* dated May 1992 (Revised August 2005), and methodologies outlined in our May 2001 MNA work plan. The MNA work plan was approved by NJDEP on January 24, 2002. Locations of the monitoring wells sampled this quarter are shown on Figure 2.

Three sample duplicates, trip blanks, a field (atmosphere) blank, two matrix spike/matrix spike duplicates (MS/MSDs), and two rinsate blanks were collected to satisfy Quality Assurance/Quality Control (QA/QC) requirements outlined in the revised Quality Assurance Project Plan [QAPP] presented as Appendix C in the PRMP.

The trip blanks were prepared by the laboratory and remained with the sample containers until the samples were returned to the laboratory where they were analyzed for BTEX. The duplicates were collected from surface water location SW-D-5 (duplicate sample No. Dup-01), monitoring well MW-19-4 (duplicate sample No. Dup-02), and MW-30D (duplicate sample No. Dup-03), and were analyzed for BTEX and di(2-ethylhexyl)phthalate (DEHP). Dup-02 and Dup-03 were also analyzed for MNA parameters. Rinsate blank RB-01 and RB-02 were collected by circulating distilled water through the cleaned bladder pump assemblies to verify the decontamination procedures were adequate. Any sampling equipment used at each well was decontaminated prior to each use utilizing an environmental detergent (Alconox) and clean water wash followed by a distilled water rinse. The field (atmosphere) blank was taken by opening a bottle of unpreserved de-ionized water, leaving the bottle open during the sampling of one well, and pouring that water directly into clean sample bottles with added preservative also provided by the laboratory. RMT submitted all samples to Environmental Science Corp. (ESC), located in Mt. Juliet, Tennessee for BTEX, DEHP, and MNA parameter analyses (State of New Jersey Lab Certification No. TN002).

2.5 Groundwater Elevations and Flow Direction

RMT measured static groundwater levels within 34 groundwater monitoring wells (Figure 2) on December 3, 2007 as part of the sampling activities. In addition, surface water levels were measured at seven separate locations along the Rockaway River and five locations along the drainage ditch. These data were used to calculate groundwater elevations with respect to the National Geodetic Vertical Datum (NGVD), and evaluate the groundwater flow pattern in the shallow aquifer system. Groundwater elevations are summarized on Table 1 and these data were used to prepare a site-wide contour map (Figure 3). Two groundwater monitoring wells and one surface water monitoring location were not utilized in the development of the potentiometric surface map present as Figure 3. MW-13S(R), located on the Air Products

property was locked, and MW-19-10 was damaged during snow removal activities. The MW-19-10 monitoring well will be abandoned in 1Q08. The SW-D-5 surface water monitoring location is located directly east of LEC, where drainage channel flow is inhibited by a beaver dam as it heads south towards the Rockaway River. This location will be surveyed following installation of the five (5) wetland monitoring wells after NJDEP LURP permits have been received. The site-wide groundwater contour map is discussed further in Section 3 of this report.

Figure 4 displays the MW19/Hot Spot 1 Area shallow groundwater elevation contours, and shows the shallow groundwater flow direction is similar to that observed historically (generally toward the northeast). From a regional flow standpoint, overall flow is controlled by the Washington Forge Pond and the Rockaway River. The regional sewer line that runs down Ross Street has localized influences on the groundwater contours.

Groundwater elevation data obtained for the MW-19/Hot Spot 1 area wells continues to show that MW-19-12 is directly downgradient from the leading edge of residual groundwater contamination (Figures 4 and 5). The 4Q07 groundwater sample laboratory test results for MW-19-12 and MW-19-7 show no detectable constituents of concern (COCs). These data confirm that the lateral extent of residual groundwater contamination is limited to the LEC site property (see Section 2.4 below and Figure 4).

2.6 Delineation of Groundwater Contamination

2.6.1 Contaminants of Concern (COC)

Table 2 summarizes BTEX and DEHP concentrations for all of the currently sampled groundwater monitoring wells. The lateral distribution of total BTEX concentrations in the MW-19/Hot Spot 1 Area is shown on Figure 5. RMT sampled groundwater from the MW19/Hot Spot 1 monitoring wells on December 4 & 5, 2007. Corresponding field sampling data and analytical laboratory reports are presented in Appendix C and Appendix D, respectively.

The New Jersey Groundwater Quality Standard (NJGWQS) for DEHP (3 μ g/L) is not exceeded in any of the MW-19/Hot Spot 1 area monitoring wells sampled during the 4Q07 monitoring event. Toluene, ethylbenzene, and total xylenes exceed the NJGWQS of 1000 μ g/L, 700 μ g/L and 1000 μ g/L, respectively, in groundwater collected from MW-19 and MW-19-5.

During the second quarter of 2006 (2Q06), MW-19-12 was installed between MW-19-7 and MW-19-11 in order to determine if dissolved BTEX constituents existed further

northeast towards the residences on Ross Street. As discussed above, data continues to show that MW-19-12 is downgradient of MW-19-7 and no BTEX or DEHP were detected in MW-19-12. As shown on Figure 5, this indicates that existing residual groundwater contamination in the MW-19/HS1 area is very limited in extent and poses no risk to residences on the north side of Ross Street.

The trend charts in Appendix B show that downgradient migration is limited to the near vicinity of MW-19-7 because the bulk of past monitoring events show that MW-19-7 is directly downgradient from MW-19-5 (as described above), and the concentrations in MW-19-7 are shown to rise only slightly following relatively large upward spikes in COC concentration in MW-19-5. Data show that the COC plume exists under equilibrium conditions [as described further below during the discussion of natural attenuation (NA)], although possibly affected by short-lived pulses of higher concentrations following major infiltration and water table fluctuation events.

Monitoring well MW-19-12 (Figures 4 and 5) verifies the limited area of dissolved COC contamination, shows that this plume is in equilibrium, and assures that COCs are not migrating across Ross Street.

Figure 5 shows isoconcentration contours for total BTEX levels in parts per million (ppm or mg/L). The contours were constructed by taking into account total concentrations together with particle flow-paths that are perpendicular to the groundwater elevation contours. The distribution of total BTEX defined by the isoconcentration contours is consistent with the predominant lateral component of groundwater flow direction defined by the groundwater elevation contours.

The lack of downward migration of COCs is evidenced by a lack of detectable constituents in MW-19-D, and further supported/verified by historical groundwater elevation data that continues to show strong upward vertical hydraulic gradients. This upward vertical gradient is consistent with all other former deep/shallow well clusters across the site and is a function of the hydraulic head induced by the Washington Pond Reservoir, and regional discharge to the Rockaway River. These findings are consistent with an earlier RMT prediction of an upward vertical gradient for this location based on nearby piezometers GEI-2I and GEI-2S, and other upward vertical gradients observed across the site. The Washington Forge Pond (at an elevation of approximately 640 feet), and the Rockaway River act as constant head boundaries, and together comprise a regional aquifer discharge area.

2.6.2 MNA Parameters and Data Analysis

Tables 3 and 4 summarize the MNA laboratory analytical and field data, respectively. The current quarterly groundwater-monitoring program, as a result of recent modification to the LEC site groundwater monitoring well network, was revised on January 13, 2005, and put into affect for 1Q05 sampling. The sampling and testing was done in accordance with the revised MNA sampling protocol presented as Appendix D in the 1Q05 monitoring report.

Natural attenuation of petroleum hydrocarbons via biodegradation (also known as intrinsic bioremediation) has been documented to be a universal phenomenon in that it occurs at 100% of sites with BTEX hydrocarbon contamination, and is found to be protective at >80% of those sites (Wiedemeier, 1997). Given the low concentrations exhibited over most of the sampling history for MW-19-7 (relative to MW-19-5), and results of NA parameter testing (described in more detail below), LEC believes that intrinsic bioremediation is active at the site.

The main difference that exists with respect to distribution of contaminants at various sites is related to the distance contaminants migrate before an "equilibrated" zone of degradation occurs. Because the data for MW-19-5 shows increased mass flux of contaminants from vadose to dissolved phase as a function of infiltration and water table fluctuation, and because hydraulic data suggests that MW-19-11 is not directly downgradient from the zone of residual soil contamination, MW-19-12 was installed to assure that the full lateral extent of the plume is known. As shown in the 2Q06 through 4Q07 reports, MW-19-12 continues to be hydraulically downgradient from the MW-19 Hot Spot 1 residual source area (Figure 3). Consistent with the conclusion that residual soil contamination in the vadose/smear zone has been delineated and is generally limited in extent, and that the dissolved-phase groundwater "plume" exists largely under equilibrium conditions, MW-19-12 was again non-detect for BTEX and DEHP in 4Q07.

Note that MW-19-7 did not appear to be directly downgradient during the third quarter of 2004 (3Q04) (August 2004), 3Q05 (July 2005), 4Q06 (November 2006), and 2Q07 (June 2007) events, which are likely the reason that contaminant of concern (COC) concentrations were non-detect or just slightly elevated above detection for those four events. However, it is also important to note that often when concentrations from the residual source area (currently represented mostly by results from MW-19-5) spike upwards [as in the second quarter of 2002 (2Q02) and 2Q04 events], concentrations also rise but remain relatively low at MW-19-7, which based on the groundwater contours for those events was directly downgradient from MW-19-5. This further supports the idea

that the zone of dissolved groundwater contamination that is elevated above NJDEP cleanup criteria is sourced from infiltration through, and fluctuating water tables within, residual soil contamination in the vadose zone.

Where NA processes are present, groundwater contamination stops migrating at some finite distance from the source because biodegradation prevents plume expansion once relative equilibrium conditions have been achieved with respect to microbially mediated processes. Based on isoconcentration maps from the past two years and the data in Table 2, it appears that the size and shape of the plume within the MW19/Hot Spot 1 Areas have remained relatively constant. At the upgradient edge of residual soil contamination, MW-19 shows evidence of overall concentration reductions over time. Within or immediately adjacent to the downgradient edge of residual soil contamination, MW-19-5 shows variable concentrations over time related to infiltration and water table fluctuation events. Further downgradient from the residual soil contamination MW-19-7 shows the least amount of BTEX concentrations and the highest concentrations of various NA parameters that are produced as a function of biodegradation.

Numerous researchers have shown that BTEX biodegrades via aerobic respiration, denitrification, manganese reduction, iron (III) reduction, sulfate reduction, and methanogenesis. Therefore, indicator parameters (Tables 3 and 4), such as iron, dissolved oxygen, sulfate, methane, and nitrate, that the micro-organisms need and use to biodegrade petroleum hydrocarbons can be monitored and evaluated between monitoring wells that are upgradient, downgradient, or within the plume area itself. The low concentrations of sulfate and nitrate observed within the plume (e.g., MW-19-5), as compared to upgradient concentrations (e.g., MW-19-4), are positive evidence biodegradation is taking place in the MW-19/Hot Spot 1 Area. In addition, several other parameters, such as carbon dioxide (CO2), alkalinity, methane, and ferrous iron, are produced by the same micro-organisms during contaminant degradation and are also being monitored and tracked across the site. Within the MW-19/Hot Spot 1 plume area, the concentrations of all four previously mentioned parameters are significantly higher than compared to background concentrations. These data, together with the trend to non-detect total BTEX concentrations in MW-19-7 and MW-19-12, indicate that biodegradation of BTEX compounds reaches completion a relatively short distance downgradient from MW-19-7 (between MW-19-7 and MW-19-12).

These data show that intrinsic bioremediation processes are strong and actively working to break down BTEX components related to residual soil contamination. NA parameters

will continue to be monitored and as more data is received future evaluations will be performed and updates submitted with quarterly monitoring reports.

Although the residual soil contamination is limited in extent, it is apparently significant enough such that remediation via natural attenuation could take many years before achieving industrial cleanup levels. Therefore, LEC is taking steps towards remediating the MW-19.HS1 area as outlined in the September RASR (See Section 5).

Section 3 Source Reduction Area of Concern (AOC)

This 4Q07 event marks the seventh time that PRMP wells have been sampled. Installation of the remaining five (5) approved PRMP wells planned for the Wharton Enterprises property wetland area is not currently scheduled due to the extreme delays in obtaining the NJDEP Land Use Regulation Program (LURP) approval of a GP-14 [382 business days in review] and Stream Encroachment Modification permit (233 business days in review) applications submitted to the LURP on August 15, 2006 and March 26, 2007, respectively (refer to Section 5.1 below).

Site-wide groundwater contours are shown on (Figure 3). The contours were prepared by utilizing the surveyed groundwater elevations from the new PRMP wells, existing site wells, and river and ditch surface water elevations (Table 1). The map shows that shallow groundwater flow is similar to flow that occurred before the source reduction in that shallow groundwater at the site is recharged by Washington Forge Pond, as well as the first 600 feet of the Rockaway River below the dam ("losing" reach of river; see approximate flow direction arrows on Figure 5). Further downgradient, site groundwater nearest the river flows generally parallel to the river, and eventually becomes influent to the river just downgradient of the source reduction area (in the Wharton Enterprises wetland area). Also, similar to the pre-source reduction flow, some of the site shallow groundwater becomes influent to the ditch surface water; this flow-path is supported by the occasional low detections of COCs in some of the ditch surface water samples (see Section 4).

Note that the groundwater contour map shows the effect of the buried slurry monolith on groundwater flow, and that it is very limited in extent. Specifically, the area of the monolith can be approximated by the shape of the low swale roughly defined by the 629-foot ground elevation contour, and the inferred 625.5-foot groundwater contour roughly mimics the shape of that swale. The presence of the monolith does not change the overall flow directions which as shown on Figure 3 and described above are directed towards the ditch, the wetland area, and the river.

The analytical results from all events are summarized in Tables 2 thru 5 low levels of dissolved groundwater contamination were found in shallow wells MW-28s and MW-30s (Table 2). In addition, no measurable free product was found in either well. The concentrations of dissolved benzene, ethylbenzene, and xylene appear to be generally decreasing over time, however slight increases in these BTEX constituents were seen in 4Q07. Dissolved DEHP continues to decrease over time at the MW-28s and MW-28i monitoring wells. The trend of DEHP in MW-30s is less clear, but appears to be decreasing overall.

The shallow wells lie within the central (MW-28 cluster) and downgradient (MW-30 cluster) portions of the source reduction area, and both have screens that straddle the base of the slurry monolith floor. At both locations, deeper wells (MW-28i and MW-30i) were installed just below the shallow well (screened approximately 5 feet below the bottom of the shallow well screen). Analytical results from MW-28i identified only DEHP and at a concentration slightly above the detection limit, which represents a significant drop in concentration (Table 2). No COCs were detected in MW-30i.

With the exception of a "J" qualified DEHP detection in 3Q06, no contamination has been detected in the deepest well (MW-30d; Table 2). In 4Q07, Toluene was detected in the duplicate sample collected at the MW-30d well location. However, given this COC was not detected in the intermediate location MW-30i, and the fact that the actual sample collected for this location in 4Q07 was non detect, RMT believes this Toluene concentration is a result of laboratory error. Communications with the laboratory have occurred to ensure sample and laboratory integrity is maintained. In general, COC trend analysis demonstrates that the vertical extent of dissolved groundwater contamination is limited to a depth of between 5 to 10 feet below the bottom of the slurry monolith floor at that location.

Based on the groundwater flow map for the whole site (Figure 3), the receptor downgradient from the central portion of the source reduction area represented by results from MW-28 is the ditch. Groundwater from other portions of the source reduction area flows towards the wetland area and the river. Additional monitoring points (as shown on Figure 3) will be installed upon receipt of the GP-14 and minor modification Stream Encroachment permits as described above. As reported in Table 5 and as outlined in Section 4, all seven of the river surface water samples were "non-detect" for BTEX and DEHP.

The surface water elevation data for the ditch is consistent with its configuration as a U-shaped "linear" pond formed as a result of a beaver dam (Figure 3). All of the ditch surface water samples were "non-detect" for the COCs, with the exception of ethylbenzene and DEHP detected in 4Q07 at SW-D-4 and SW-D-2 respectively.

A more detailed analysis of COC concentrations, groundwater flow, hydrogeology, and geology related to the source reduction area will be provided once the proposed downgradient wetland wells have been installed and sampled.

Section 4 Surface Water Sampling

4.1 Eastern Drainage Channel

As part of the 4Q07 event, RMT sampled the eastern drainage channel that separates the adjacent Air Products facility from the LEC site and the adjacent Wharton Enterprises property. This sampling was conducted at the request of NJDEP as outlined in their letter dated March 23, 2005. During the 4Q07 sampling event, five locations (SW-D-1, SW-D-2, SW-D-3, SW-D-4, and SW-D-5) were sampled. Sample SW-D-1 is located at the upstream end (head) of the ditch. Sample SW-D-2 is located just downgradient of the bend around the Air Products facility adjacent to the area where free product seeps were observed before completion of the source reduction. Sample SW-D-3 is located at the downgradient end of the ditch, just west of the connecting channel that feeds into the Rockaway River. Sample SW-D-4 is located just upgradient of the bend around the Air Products facility on the LEC side of the ditch. SW-D-5, added during the 3Q06 event, is located within the channel that connects the ditch to the Rockaway River; just above the beaver dam. All surface water sample locations are shown on Figure 2. The laboratory testing results for these samples are summarized on Table 5.

Neither BTEX or DEHP were detected in any of the ditch surface water samples, with the exception of SW-D-2 and SW-D-4. The surface water sample from SW-D-2 had a concentration of 1.5 μ g/L for DEHP while SW-D-4 had a concentration of 1.4 μ g/L for ethylbenzene. Neither of these ditch samples was above their respective New Jersey Surface Water Quality Standards (NJSWQS).

4.2 Rockaway River

In addition to the drainage channel, RMT also collected seven surface water samples from the Rockaway River (Ref. Figure 2 and Table 5).

Sample SW-R-1 was collected near the river edge adjacent to the location where product sheen had been previously observed (before the source reduction) to be migrating directly into the river. As discussed in earlier reports, the sheen was discovered in 2004 as a visible coloration on top of quiescent water pooled within the wetland area. The surface water sample from SW-R-1 was non-detect for BTEX and DEHP. No product sheen was observed at this location during the 4Q07 event.

River sample SW-R-2 was taken directly upstream of the SW-R-1 location. The surface water sample collected in the river at SW-R-2 also did not contain detectible concentrations of BTEX or DEHP.

River sample SW-R-3 was taken upstream of SW-R-2, near the SG-R3 staff gauge. The surface water sample collected in the river at SW-R-3 did not contain any detectible concentrations of BTEX or DEHP.

Rockaway River surface water samples SW-R-4 and SW-R-5, and Washington Forge Pond surface water sample SW-R-6 were non-detect for all COCs.

Another surface water sample was collected in the ditch near its intersection with the Rockaway River (approximately 10 feet upstream in the drainage channel; see Figure 2). Similar to the other river samples collected, the "Ditch-River Confluence" sample DRC-2 was non-detect for BTEX and DEHP. Because the DRC-2 location represents the discharge point from the ditch/beaver pond, this sampling point will continue to be tested as part of future monitoring events. This surface water monitoring point will be professionally surveyed along with the five (5) wetland monitoring wells following LURP permit receipt.

Surface water sampling at the eastern drainage ditch as well as the Rockaway River and Washington Forge Pond will continue to take place during each quarterly monitoring event. Specifics regarding surface water sampling locations, frequency and analytes are presented in the PRMP and associated Quality Assurance Project Plan (QAPP).

Section 5 Additional and Future Project Activities

The following section briefly outlines additional activities completed in 4Q07 and activities anticipated for completion during 1Q08. The 1Q08 monitoring event is tentatively scheduled for the week of February 18, 2008. An updated Master Project Schedule is presented in Appendix E.

5.1 Post Remedial Monitoring Plan [PRMP] Implementation and Reporting

Discussions were initiated between RMT and both NJDEP and USEPA during the fourth quarter of 2005 (4Q05) regarding the development and installation of the post source reduction site monitoring network in accordance with the submitted PRMP. A formal regulatory review and comment letter regarding the PRMP was received by LEC on February 22, 2006. RMT prepared a response to the February 22, 2006 NJDEP comments in Section 1 of the 1Q06 RAPR dated May 9, 2006. NJDEP approved the 1Q06 RAPR including response to the PRMP comments in their letter dated March 30, 2007.

RMT, on behalf of LEC, began installing the PRMP monitoring well network on June 5, 2006. RMT and LEC submitted the necessary GP-14 permit application to the NJDEP LURP on August 14, 2006 requesting authorization to install the remaining five monitoring wells (i.e., monitoring devices) in the wetland area located east of the site (Wharton Enterprise property). Contrary to our interpretation of the New Jersey wetland regulations, as well as initial phone conversations with the LURP, we were informed that we may have to modify the existing GP-4 permit to authorize the installation of the monitoring wells in the wetland area. RMT argued that the GP-4 permit authorized remediation of a wetland area whereas the GP-14 authorizes installation of "monitoring devices" in a wetland, and as such, the in place GP-14 application should suffice. During further conversations, the LURP verbally agreed that the GP-14 permit application was the appropriate mechanism to authorize the installation of wells in a wetland area, and no modification of the existing GP-4 was required.

In February 2007, we were notified during follow up conversations regarding approval of the GP-14 application that a modification to the existing Stream Encroachment Permit (1439-04-0001.1 FHA040001 SEP) would be required in order to allow the placement of fill material in the 100-year floodplain. This fill material is required because the remaining five monitoring wells must be installed through mounds to facilitate screening the shallow water table with a properly constructed well. Description of the proposed mounded well design was outlined in the August 2006 GP-14 permit application, yet no SEP modification request was made until

February 2007. Though we did not want to submit a second application without knowing the status of the first (GP-14), RMT submitted the requested SEP modification to NJDEP LURP on March 26, 2007 to avoid further delays.

A voice message received from NJDEP LURP on April 25, 2007 suggested that the GP-14 permit application was approved in Oct 2006. However, no formal written approval was received by RMT, and no mention of the approval was made by LURP staff during RMT's numerous phone conversations with LURP in 4Q06 and 1Q07 regarding approval status. During a phone call with the LURP in early 2Q07, the LURP conveyed that they did not anticipate GP-14 permit/SEP modification approval until the end of June 2007 (90 business days following receipt of the SEP permit modification on March 26, 2007). Follow-up conversations with LURP in 2Q07 required minor modifications to GP-14 Figure 3 be made (*i.e.*, visual depiction of the 50-ft transition zone). A revised Figure 3 was submitted to LURP on July 25, 2007.

At present, GP-14 permit/SEP modification approvals have not been provided. Based on conversations with LURP regarding the status of both permit applications, and recent conversations with NJDEP, LURP staff review of the permits were completed, and the permits were slated to be issued in October 2007. Regardless of the lack of NJDEP LURP final approval of the GP-14 wetland permit application and stream encroachment permit modification, and because of the extreme delays and efforts in obtaining the permits, LEC had tentatively scheduled the PRMP wetland well installations beginning on November 12, 2007. Based on conversations with Mr. Glen Savory on November 7, 2007, in reference to his conversations with NJDEP division heads, Mr. Savory advised against installing the PRMP wetland wells without obtaining the permits. As stated above, the additional monitoring points (as shown on Figure 5) will be installed upon receipt of the GP-14 and Stream Encroachment Modification permits.

As outlined on the Project Schedule, RMT has tentatively re-scheduled installation of the five (5) remaining wetland area PRMP wells for mid March 2008 assuming NJDEP LURP provides GP-14 and mmSEP permit approvals by the end of February 2008.

5.2 Remedial Action Progress Reports [RAPRs]

The 2Q06, 3Q06, 4Q06, 1Q07, 2Q07, and 3Q07 RAPRs were submitted to both NJDEP and USEPA for review on August 24, 2006, November 8, 2006, February 2, 2007, May 5, 2007, July 20, 2007 and November 7, 2007 respectively. During a January 23, 2007 phone conversation, NJDEP indicated that formal regulatory response following review of these 1986 ACO required deliverables would be forwarded to both LEC and RMT by the end of February 2007. As previously mentioned, NJDEP approved the 1Q06 RAPR including response to the PRMP comments in their letter dated March 30, 2007. However, no response has been received to date for the remaining 3 - 2006 RAPRs and 3 - 2007 RAPRs.

5.3 MW19/Hot Spot 1 Soil Gas Investigation and RASR

On May 9, 2006 RMT, on behalf of LEC, submitted a soil gas investigation report documenting field implementation and the results of a soil gas investigation conducted in the MW19/Hot Spot 1 area to comply with the October 2005 NJDEP Vapor Intrusion Guidance and revised NJDEP Field Sampling Procedures Manual (August 2005). During a January 23, 2007 phone conversation, NJDEP indicated that formal regulatory response following review of this report would be forwarded to both LEC and RMT by the end of February 2007. LEC received a Notice of Deficiency (NOD) comment letter from the NJDEP, dated June 20, 2007. RMT, on behalf of LEC, prepared a request for a 45-day extension dated July 17, 2007 for the submittal of the Remedial Action Selection Report (RASR) outlined in the NJDEP NOD. NJDEP approved the 45-day extension. Subsequently, LEC submitted the RASR on September 4, 2007. No regulatory comments on the RASR have been received to date. Tentative dates for advancing this remedial evaluation are presented in the project schedule based on receipt of NJDEP comments on the RASR approval by April 1, 2008.

5.4 Source Reduction Remedial Project

As was outlined in the final source reduction progress update dated June 30, 2005, the construction phase of this project is now complete. A Remedial Action Report (RAR) documenting all source reduction activities was provided to both NJDEP and USEPA for review on week of November 14, 2005. LEC received a RAR comment letter from the NJDEP, dated June 14, 2006. RMT, on behalf of PolyOne, prepared a response to the RAR comment letter dated August 25, 2006. During a January 23, 2007 phone conversation, NJDEP indicated that formal regulatory response following review of the August 25, 2006 response to comment letter would be forwarded to both LEC and RMT for review by the end of February 2007. RMT received a response via email, on July 13, 2007, requiring LEC to modify the RAR figures to clarify the area that encompasses the LNAPL smear zone excavation and its relationship to the location of the subsurface slurry monolith. RMT submitted the revised figures on July 25, 2007 and received agency approval of the RAR and associated response to comment documents on September 14, 2007.

5.5 USEPA Explanation of Significant Differences [ESD]

USEPA issued an Explanation of Significant Differences (ESD) dated October 24, 2007 for areas that were addressed through implementation of the source reduction in a manner differing from those prescribed in the 1994 ROD. A copy of the ESD is presented in Appendix F. The ESD documents USEPA and NJDEP approval to modify the selected LEC remedy as outlined in the 1994 ROD based on implementation of the remedial measures documented in the November 2005 RAR. ESD modifications to the selected remedy are as follows:

- Floating product and associated smear zone soils were excavated and disposed of off-site as an alternative to the active removal system selected in the ROD due to the low yield of floating product extraction system previously installed;
- 2. Bis (2-ethlyhexyl) phthalate (DEHP) impacted soils were excavated and disposed of off-site instead of being consolidated in to a soil treatment zone;
- No reinfiltration of treated groundwater will be performed for the purpose of treating soil
 contamination, as all contaminated site soils were excavated to meet cleanup standards and
 disposed of off-site;
- 4. Following implementation of the source reduction remediation, all disturbed areas were restored to proposed final grades with a vegetative soil cover. The ROD selected a vegetative cover over the area of groundwater infiltration;
- Excavation and off-site disposal of soils containing PCBs and lead were completed to meet the more stringent New Jersey Residential Direct Contact Soil Cleanup Criteria (RDCSCC) (0.39 ppm and 400 ppm, respectively) instead of the Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) (2.0 ppm and 600 ppm, respectively) as required in the ROD;
- All soils above site-established cleanup levels were excavated and disposed of off-site
 during the source reduction remediation, instead of the excavation of some soils and on-site
 treatment through flushing of other soils as selected in the ROD;
- 7. Environmental use restrictions on the property as selected in the ROD are no longer needed since RDCSCC were met for PCBs and lead at the site.
- 8. It should be noted that while most of the site soils were excavated to levels below the water table, thereby removing all contaminates, there is a limited area of soils in the southwest corner of the site, called the B-2 area, where soils were excavated to a depth of 2 feet and the excavation was then backfilled with clean fill. Two post-excavation samples collected at the base of this excavation in this area exceeded the NJDEP residential soils cleanup goal for antimony of 14 ppm. The concentrations of antimony collected at the base of the excavation are well below NJDEP's non-residential cleanup goal, and are covered with two feet of clean soil. Based on a review of all post-excavation samples of this limited area, EPA and NJDEP have determined that the concentrations of antimony detected during post-excavation sampling event do not warrant environmental use restrictions on the property. A detailed evaluation of this issue is available for review in the site files.
- 9. Also, it should be noted that this ESD does not address any changes to component 2 of the ROD which relates to the groundwater portion of the remedy. Therefore, this ESD does not address any changes to the groundwater pump and treat system as required by the ROD, The purpose of the pump and treat system as is to address the residual groundwater contamination after the floating product areas have been remediated. The pump and treat component of the remedy is currently being reevaluated. NJDEP's and EPA's review of the groundwater data indicate the potential for Monitored Natural Attenuation (MNA) to be

an appropriate groundwater remedy for a portion of the groundwater contamination. In January 2005, L.E. Carpenter began to implement an MNA work plan to collect the required data to determine if MNA will be an effective remedy for this site. NJDEP and EPA will evaluate the results of this ongoing MNA investigation and will determine, in the future, if MNA is the appropriate remedy for this site. In addition, further investigations are ongoing to further evaluate an area of benzene, toulene, ethylbenzene and xylene (BTEX) contamination near the Monitoring Well – 19 (MW-19) portion of the site property. This area is not believed to be appropriately addressed by MNA and may need an alternate remedy.

5.6 Wetland Monitoring, Invasive Species Control, and Reporting

Spring and fall 2007 wetland monitoring and invasive species control events were conducted by a certified wetland expert (JFNew) in the Wharton Enterprise wetland area and associated transition zones to comply with the NJDEP Land Use Regulation Program (LURP) GP-4 Permit (File No. 1439-04-0001.1 [FWW 040001]). The spring 2007 monitoring and invasive species control events were conducted on May 15, 2007 and June 28, 2007 respectively. The fall 2007 events were completed on September 6 and 7, 2007. Results and recommendations generated from the 2007 events were presented in the report entitled 2007 Compensatory Mitigation Monitoring Report (JFNew, December 20, 2007). Spring and fall 2008 monitoring and invasive species control events are tentatively scheduled for May and September 2008. General wetland restoration activities and wetland well mound restorations will be performed during an appropriate time of year following LURP permit approvals and subsequent wetland PRMP well installations.

Tables

TABLE 1 L.E. Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Elevations

	· · ·	-		·	(2)						
			PROFESSIONAL S				QUARTERLY MEASUREMENT INFORMATION				
WELL LOCATION	MONITORING DEVICE TYPE		OCATION (FT)	В	LEVATION (FT. MS	r)		<u> </u>			
			re Coordinates			INNER WELL	MEAS.	WATER	WATER		
		(Y) North	(X) East	GROUND (6)	OUTER CASING	637.60	3-Dec-07	DEPTH 10.46	627.14		
GEI-2I	Piezometer	754573.99	470499.76	635.32	637.75		3-Dec-07	10.35	626.72		
GEI-25	Piezometer	754566	470506.18	634.86	637.27	637.07		12.72	626.53		
GEI-3I	Piezometer	754311.79	470453.7	636.96	639.39	639.25	3-Dec-07				
MW-8	Monitoring Well	754099.29	471251.06	627.39	629.96	628.19	3-Dec-07	2.56	625.63		
MW-9	Monitoring Well	754075.94	471111.03	628.61	631.09	629.58	3-Dec-07	3.50	626.08		
MW-12S(R)	Monitoring Well	754055.97	471042.34	631.57	634.26	633.73	3-Dec-07	7.49	626.24		
MW-13S	Monitoring Well	754353.97	471370.04	627.74	630.80	630.63	3-Dec-07	4.68	625.95		
MW-13S(R)	Monitoring Well	754333.07	471365.71	627.66	630.36	629.99	3-Dec-07	NIM - lock	•		
MW-13I	Monitoring Well	754337.8	471360.31	627.76	630.28	630.06	3-Dec-07	4,55	625.51		
MW-15S	Monitoring Well	754326.58	470891.83	634.23	636.43	636.17	3-Dec-07	10.20	625.97		
MW-15I	Monitoring Well	754325.8	470901.47	634.14	636.28	636.06	3-Dec-07	10.15	625.91		
MW-17	Monitoring Well	754109.68	470759.85	632.35	634.32	634.19	3-Dec-07	8.12	626.07		
MW-18S	Monitoring Well	754677.95	471117.26	627.62	630,88	630.66	3-Dec-07	5.02	625.64		
MW-18I	Monitoring Well	754675.11	471106.07	627.75	630.59	630.44	3-Dec-07	4.48	625.96		
MW-19	Monitoring Well	754537.15	470454.45	636.22	636.23	635.90	3-Dec-07	9.05	626.85		
MW-19-1	Monitoring Well	754534.52	470427.63	635,93	635.96	635.64	3-Dec-07	8.75	626.89		
MW-19-2	Monitoring Well	754551.81	470429.56	636.46	636.50	636.30	3-Dec-07	9.47	626.83		
MW-19-3	Monitoring Well	754539.4	470394.2	636.97	637.06	636.70	3-Dec-07	9.67	627.03		
MW-19-4	Monitoring Well	754505.39	470432.08	635.69	635.76	635.43	3-Dec-07	8.38	627.05		
MW-19-5	Monitoring Well	754565.53	470470.75	635.93	635.93	635.56	3-Dec-07	8.84	626.72		
MW-19-6	Monitoring Well	754578.87	470443.1	636.17	636.16	635.82	3-Dec-07	8.99	626.83		
MW-19-7	Monitoring Well	754595.66	470501.7	635.31	635,36	635.00	3-Dec-07	8.31	626.69		
MW-19-8	Monitoring Well	754617.42	470493.65	635.82	635.82	635.36	3-Dec-07	8.67	626.69		
MW-19-9D	Monitoring Well	754590	470442	636.39	636.41	636,10	3-Dec-07	8.79	627.31		
MW-19-10	 	754625.75	470590.81	634.72	634.81	634.43	3-Dec-07	NM- Damaged	027.31		
	Monitoring Well Monitoring Well	754617.45	470546.95	634.22	 	633.67	3-Dec-07	7.05	626.62		
MW-19-11	Monitoring Well				634.26						
MW-19-12	1	754627.53	470529.72	634.93	634.93	634.46	3-Dec-07	8.02	626.44		
MW-21 ⁽³⁾	Monitoring Well	754240.97	471645.78	624.57	628.49	628.20	3-Dec-07	3.69	624.51		
MW-25(R) (3)	Monitoring Well	754201.83	471518.21	624.65	626.77	626.62	3-Dec-07	2.20	624.42		
MW-27s	Monitoring Well	754253.78	470672.69	635.82	635.78	635.07	3-Dec-07	8.80	626.27		
MW-28S	Monitoring Well	754243.26	471034.34	628.20	631.28	631.14	3-Dec-07	5.71	625.43		
MW-28I	Monitoring Well	754242.87	471031.19	628.25	631.20	631.04	3-Dec-07	5.62	625.42		
MW-29S	Monitoring Well	754411.14	471187.85	629.94	632.83	632.66	3-Dec-07	7.35	625.31		
MW-30S	Monitoring Well	754281.65	471265.21	625.08	628.18	627.99	3-Dec-07	2.98	625.01		
MW-30I	Monitoring Well	754286.42	471263.15	625.14	628.15	628.00	3-Dec-07	2.83	625.17		
MW-30D	Monitoring Well	754290.05	471261.2	625.20	628.22	628.04	3-Dec-07	2.79	625.25		
SG-R2 ⁽³⁾	Rocksway River Monitoring Point	754056.10	470946.46	629.41	-	<u>-</u>	3-Dec-07	2.45	626.96		
SW-R-1 ⁽⁴⁾	Rocksway River Monitoring Point	754125.56	471523.00	625.87	-		3-Dec-07	2.48	623.39		
SW-R-2 (4)	Rockaway River Monitoring Point	754112.82	471426.51	626.54	•		3-Dec-07	2.33	624.21		
SW-R-3 ⁽⁴⁾	Rockaway River Monitoring	754149.30	471368.76	626.25	-	-	3-Dec-07	1.68	624,57		
SW-R-4 ⁽⁴⁾	Point Rocksway River Monitoring	754088.00	471279.58	627.57	-		ļ				
	Point Rockaway River Monitoring			f		İ	3-Dec-07	2.35	625.22		
SW-R-5 (4)	Point	754314.04	470408.85	640.66	-		3-Dec-07	1.50	639.16		
SW-R-6 ⁽⁴⁾	Rockaway River Monitoring Point	754071.52	470697.75	631.68	•	-	3-Dec-07	3.27	628.41		
SW-D-1 ⁽⁵⁾	Drainage Channel Staff Gauge	754428.36	471240.17	625.75	-	•	3-Dec-07	1.78	623.97		
SW-D-2 ⁽⁵⁾	Drainage Channel Staff Gauge	754285.35	471361.22	626.07	-		3-Dec-07	2.00	624.07		
SW-D-3 ⁽⁵⁾	Drainage Channel Staff Gauge	754381.23	471548.18	625.70	-		3-Dec-07	1.65	624.05		
SW-D-4	Drainage Channel Monitoring		471292.08	624.93			3-Dec-07	0.95	623.98		
SW-D-5 ⁽⁷⁾	Point Drainage Channel Monitoring			142.7.7		-	 		023.98		
5W-D-5 "'	Point	L	Not Surveyed		i		3-Dec-07	2.90	-		

TABLE 1

4th Quarter 2007

L.E. Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Elevations

		PROFESSIONAL S	URVEY INFORMATION (2)		QUARTERLYM	EASUREMENT	INFORMATION
WELL LOCATION	MONITORING DEVICE	BASELINE LOCATION (FI)	,				
	TYPE	NJ State Plane Coordinates			MEAS.	WATER	WATER
		(Y) North (X) East	GROUND (6) OUTER CASING	INNER WELL CASING	DATE	DEPTH	ELEVATION

- (2) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NAVD 88

- (2) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NAVD 88
 (3) New SG-R2 replaced the old SG-R2 installed in Nov. 1998. Professional survey performed by James M. Stewart, Inc., Philadelphia, PA May 2004. SG-R2 is a chiseled arrow on Iron (4) As outlined in the PRMP the six (6) new Rockaway River monitoring points reference survey elevation was shot at the top of a stake installed to each point
 (5) SW-D-1, SW-D-2 and SW-D-3 were resurveyed points at the top of the stake that sectures each drainage ditch staff gauge.
 These points were reshot to insure the reference elevation integrity remained for each of the 3 staff gauges as a result of source reduction remedial disturbance.

 (6) Ground reference elevation for SG and SW series gauges and monitoring points is a point specific to each devise (i.e., top of stake, to of gauge, notched point on concrete or iron etc)
 (7) This location will be surveyed along with the 5 wetland monitoring wells following LURP permit approval and installation

TABLE 2 L.E. CARPENTER AND COMPANY (LEC) Borough of Wharton, Morris County, New Jersey Groundwater Monitoring Data

					ANALY	TICAL PARAM	IETERS					
MONITORING WELLS	SAMPLE DATE	QUARTER	Е	Benzene	Eth	ylbenzene		Toluene	Tot	al Xylenes	bis-2- Ethylhexylphthalate (DEHP)	
		UNITS		ug/l		ug/l		ug/l		ug/l		ug/l
	so	DLUBILITY LIMIT	1	,700,000		152,000		515,000		175,000		
NEW JERSEY GROUNDWATER	QUALITY STANDA	ARDS (NJGWQS)		1		700		1,000		1,000		3
MW19					-							
Dilution factor for BTEX 2000	24-Feb-95	1	<	660		1,700		110,000		10,000		NR
Dilution factor for BTEX 100	14-Jun-95	2		150		3,400		140,000		17,000		NS
lution factor 5000 for BTEX & 2 for DEHP; MDL for	24-Apr-98	2	<	4 000		2 050		76 700		44,000		
Benzene 1000 ug/ll Dilution factor for BTEX 500	2-Apr-96	3	<	1,000 95		2,850 3,000		76,700 62,000		14,900		6.6 2.9
Dilution factor for BTEX 1000	6-Jun-02	2	<	200		1,000	-	30,000		6,000		5.6
Dilution factor for BTEX 100, Toluene 200	20-Nov-03	4	<	200		1,500		40,000		7,400	J	6.0
District for DTEX 100, Totalia 200	15-Jun-04	2	<	100		1,400		46,000	_	6,600	J	4.0
Dilution factor for BTEX 100, Toluene 500	10-Aug-04	3	<	20		2,100		56,000		11,000	J	2.0
Dilution factor for BTEX 50	13-Jan-05	1	<	10		750		18,000		3,600	<	1.0
ower Grab Water Sample; Dilution factor for BTEX	8-Apr-05	2	<	1		97		THE RESERVE OF THE PERSON NAMED IN				
Upper Grab Water Sample; Dilution factor for							-	1,300		530	J	3.0
Toluene 5	8-Apr-05	2	<	0.2		86		410		430	J	3.0
Diflution factor for BTEX 200	27-Jul-05	3	<	40		1,100		44,000		6,000	J	2.0
Dillution factor for BTEX 100	27-Oct-05	4	<	20		200		10,000		1,200	J	5.0
Dillution factor for BTEX 250	28-Feb-06	1	<	50		880		28,000		4,900	J	3.0
Dillution factor for BTEX 200	20-Jun-06	2	<	40		1,600		53,000		8,700	J	3.0
Dillution factor for BTEX 200	13-Sep-06	3	<	40		2,100		51,000		11,000	J	3.0
Dillution factor for BTEX 200	8-Nov-06	4	<	40	_	2,200		59,000		11,000	J	2.0
Dillution factor for BTEX 500	8-Feb-07	1	<	500		1,900		93,000		9,800	<	1.0
Dillution factor for BTEX 50, Toluene 200	27-Jun-07	2	<	50		680		32,000		3,000	<	1.0
Dillution factor for BTEX 100, Toluene 500	12-Sep-07	3	<	100		1,500		76,000		7,300		2.6
Dilution factor for BTEX 250, DEHP 1.1	4-Dec-07	4	<	250		1,500	-	49,000		7,500	<	1.1
MW19-1							_					
Dilution factor for BTEX 200	12-Mar-98	1	<	40		219		4,270		1,160		190
(v)	2-Aug-01	3	<	0.2		1.2	<	0.2	<	0.2		85
	5-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2		0.6
	19-Nov-03	4	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	15-Jun-04	2	<	0.2	<	0.2		1.7	<	0.6		11
	10-Aug-04	3	<	0.2	<	0.2	J	0.6	<	0.6	<	1
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	J	4
Lower Grab Water Sample	8-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
Upper Grab Water Sample	8-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	27-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6	J	1
	26-Oct-05	4	<	0.2	<	0.2	<	0.2	<	0.6	J	2
10440.0												
MW19-2	12 Mar 09	1		50.0		4 400		0.000				
Dilution factor for BTEX 250 Dilution factor for BTEX 2	12-Mar-98	1	<	50.0	-	1,130		9,830		6,010		8.8
Dilution factor for BTEX 2	1-Aug-01 5-Jun-02	3	<	0.4		21		160		82		16
	19-Nov-03	2	<	0.22		19		36		39	<	0.4
	15-Nov-03 15-Jun-04	4	<	0.2	<	0.2	<	0.2	<	0.6	J	11
	10-Aug-04	3	<	0.2		1.2		29		4.8	<	11
	10-Aug-04 12-Jan-05	1	<		-	28	-	150		100	J	1
Lower Grab Water Sample	8-Apr-05	2	<	0.2	< <	0.2	<	0.2	<	0.6	J	3
Upper Grab Water Sample	8-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
Opper Grab Water Sample	26-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6	<	11
	26-Oct-05	4	<	0.2	J	6.2	-	40		20	<	1
	26-Oct-05	4 ^{duplicate}	<					2.7		3.3	<	11
	20-001-05	4	-	0.2	J	0.8		2.5		3	<	1
MW19-3								0.11			-	
MW19-3	12-Mar-98	1	<	0.2	<	0.14	<	0.14	<	0.5	<	12
MW19-3	12-Mar-98 2-Aug-01	1 3	<	0.2	<	0.14	<	0.14	<	0.5	< <	1.2
MW19-3			-					0.14 0.2 0.24		0.5 0.2 0.2	< <	1.2 0.5 0.5

TABLE 2

L.E. CARPENTER AND COMPANY (LEC)

Borough of Wharton, Morris County, New Jersey Groundwater Monitoring Data

					ANAL	TICAL PARAN	IETERS				,	
MONITORING WELLS	SAMPLE DATE	QUARTER	Е	Benzene	Eth	ylbenzene	1	oluene	Tot	al Xylenes		bis-2- exylphthala (DEHP)
		UNITS		ug/l		ug/l		ug/l		ug/l		ug/l
	sc	LUBILITY LIMIT	1	,700,000		152,000		515,000		175,000	_	
NEW JERSEY GROUNDWATER	QUALITY STANDA	RDS (NJGWQS)		1		700		1,000		1,000		3
MW19-4	12-Mar-98	1	<	0.2	<	0.14	<	0.14	<	0.5	<	1.3
	2-Aug-01	3	~	0.2	<	0.14	<	0.14	<	0.3	<	0.5
	6-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2	<	0.5
	19-Nov-03	4	<	0.22	<	0.10	<	0.24	<	0.2	<	1
	28-Feb-06	1	<	0.2	<	0.2	-	2.2	<	0.6	<	1
	21-Jun-06	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	12-Sep-06	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	12-Sep-06	3 ^{duplicate}	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	7-Nov-06	4	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	7-Feb-07	1	<	1.0	<	1.0	<	5.0	<	3.0	<	1
Dilution factor for DEHP 10	26-Jun-07	2	<	1.0	<	1.0	<	5.0	<	3.0		17
	11-Sep-07	3	<	1.0	<	1.0	<	5.0	<	3.0	<	1
	11-Sep-07	3 ^{duplicate}	<	1.0	<	1.0	<	5.0	<	3.0	<	1
	4-Dec-07	4	<	1.0	<	1.0	<	5.0	<	3.0	<	1
	4-Dec-07	4 ^{duplicate}	<	1.0	<	1.0	<	5.0	<	3.0	<	1
100440 5												
MW19-5												
Dilution factor for BTEX 5000	12-Mar-98	1	<	1,000		1,920		123,000		10,100		42
Dilution factor for BTEX 1000	2-Aug-01	3	<	190		870		79,000		5,200		3.2
Dilution factor for BTEX 500	7-Mar-02	1	<	140		300		10,000		1,700		1.3
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2	<	1,100		1,100		92,000		6,300	<	9.8
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2 ^{duplicate}	<	1,100		1,300		92,000	14	6,900	<	9.4
	19-Nov-03	4	<	0.2	<	0.2		4.3	J	0.9	<	0.9
	18-Dec-03	4 ^{resample}	<	0.2		3.7		240		24	<	0.9
	16-Jun-04	2	<	100		1,400		83,000		7,400	J	1
	10-Aug-04	3	<	200		2,800		140,000		14,000	J	1
Dilution factor for BTEX 10 Dilution factot for BTEX 200, Lower Grab Water	13-Jan-05	1	<	2		64		3,100		340	<	1
Sample	9-Apr-05	2	<	40		1,000		27,000		5,300	J	1
Upper Grab Water Sample	9-Apr-05	2	<	0.2	J	0.4		9.5	J	2.3	<	1
Dillution factor for BTEX 500	26-Jul-05	3	<	100		2,600		100,000		13,000	<	0.9
	27-Oct-05	4	<	0.2		6.8		140		37	<	1
Dillution factor for BTEX 100	28-Feb-06	1	<	20		290		19,000		1,500	<	1
Dillution factor for BTEX 20	20-Jun-06	2	<	4		130		4,000		730	<	1
Diflution factor for BTEX 100	13-Sep-06	3	<	20		550		25,000		2,800	<	1.0
Dillution factor for BTEX 100	8-Nov-06	4	<	20		410		22,000		2,000		9.0
Dillution factor for BTEX 500	8-Feb-07	1	<	500		2,100		98,000		10,000	<	1.0
Dillution factor for BTEX 100, Toluene 1000	27-Jun-07	2	<	100		1,700		98,000		8,200	<	1.0
Diffution factor for BTEX 100, Toluene 500	12-Sep-07	3	<	100		1,100		67,000		5,200		1.4
Dillution factor for BEX 200, Toluene 50, DEHP 1.1	4-Dec-07	4	<	200		820		4,400		4,200	<	1.1
MW19-6									-			
Dilution factor for BTEX 200	15-Nov-99	4	<	62		94		3,400		500		32
Dilution factor for BTEX 2	1-Aug-01	3	<	0.4		14		390		47		28
	5-Jun-02	2	<	0.22		1.7		13		4.1		2.3
	18-Nov-03	4	<	0.2	<	0.2	J	0.3	<	0.6	J	6
	17-Jun-04	2	<	0.2	J	0.4		1.1		1.2	J	3
	10-Aug-04	3	<	0.2		4.6		38		18	J	4
	13-Jan-05	1	<	0.2		4		36		14	J	1
Lower Grab Water Sample	9-Apr-05	2	<	0.2		16		160		64	<	1
Upper Grab Water Sample	9-Apr-05	2	<	0.2		11		74		37	<	1
	26-Jul-05	3	<	0.2		3.6		27		14	J	2
	27-Oct-05	4	<	0.2		5.4		110		25	<	0.9
	28-Feb-06	1	<	0.2		5.8		65		23	<	1
	20-Jun-06	2	<	0.2		1.7		3.2		5.0	<	1
	20-Jun-06	2 ^{duplicate}	<	0.2		1.7		3.2		4.9	<	1
	12-Sep-06	3	<	0.2	J	0.3		1.0	J	0.9	<	1
	7-Nov-06	4	<	0.2	J	0.3	<	0.2	J	0.6	<	0.9
	7-Feb-07	1	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	26-Jun-07	2	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
							177	0.0			-	
	11-Sep-07 4-Dec-07	3	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0

TABLE 2

L.E. CARPENTER AND COMPANY (LEC)
Borough of Wharton, Morris County, New Jersey
Groundwater Monitoring Data

'					ANALY	TICAL PARAM	IETERS					
MONITORING WELLS	SAMPLE DATE	QUARTER	E	Benzene	Eth	ylbenzene	1	Toluene	Tot	al Xylenes	bis-2- Ethylhexylphthalate (DEHP)	
		UNITS		ug/l		ug/l		ug/l		ug/l		ug/l
	SC	LUBILITY LIMIT	1	,700,000		152,000		515,000		175,000		
NEW JERSEY GROUNDWATER	QUALITY STANDA	RDS (NJGWQS)		1		700		1,000		1,000		3
MM40.7												
MW19-7	45 Nov. 00			40		400		F.4		4 400		
Dilution factor for BTEX 50	15-Nov-99	4	<	16	-	100	-	51	-	1,400	<	4.1
Dilution factor for BTEX 2 Dilution factor for BTEX 5	1-Aug-01 7-Mar-02	3		6.7	<	6.6 1.3	<	13	-	680 250	<	0.4
Dilution factor for B (EX.5)	5-Jun-02	2		0.48	-	1.6	-	27		27	<	1.6 0.4
	19-Nov-03	4		4.7	J	0.4	J	0.3		460	J	1
	16-Jun-04	2	J	2.8	-	130	-	2,100		630	<	1
	16-Jun-04	2 ^{duplicate}	J	4		130		2,100		610	<	1
	10-Aug-04	3		2		1.6		1.3		20	<	1
Dilution factor for BTEX 2	12-Jan-05	1		6.1		90		240		760	<	1
	12-Jan-05	1 ^{duplicate}		2.9		45		120		380	<	1
ower Grab Water Sample; Dilution factor for BTEX	7-Apr-05	2	J	9.5		210		2,700		1,400	<	1
Jpper Water Grab Sample; Dilution factor for BTEX								STREET, STREET		STATE OF THE PERSON NAMED IN COLUMN		
10 Lever Carb Water C	7-Apr-05 27-Jul-05	3	J	13	<	370	1	5,600	1	2,300	<	1
Lower Grab Water Sample Upper Grad Water Sample	27-Jul-05 27-Jul-05	3		1.5	<	0.2	J	0.2	J	1.7 2.4	< <	0.9
Dilution factor for BTEX 200	27-Oct-05	4	J	62	_	710	J		J		_	1
Dilution factor for B I EX 200 Dilution factor for Total Xylenes 5	28-Feb-06	1	J	7.5		4.9	J	16,000		3,600 870	< <	1
Dilution factor for Total Xylenes 5	28-Feb-06	1 duplicate		AND DESCRIPTION OF THE PERSON NAMED IN					1			
Dilution factor for Total Xylenes 5	20-Jun-06	2		7.5 6.5		5.0	J	0.3	-	840	<	0.9
Dilution factor for Total Xylenes 5	12-Sep-06	3		4.9		19.0 33.0	J	0.6	-	550	<	1.0
Disuson factor for Lotal Aylenes 5	8-Nov-06	4		2.6	<	0.2	J <	0.3	-	440	<	1.0
	7-Feb-07	1		2.6	<	1.0	<	0.2 5.0	<	26 3.0	< <	1.0
	7-Feb-07	1 duplicate		Britain Committee Committee					_		_	
	27-Jun-07	2		2.6	<	1.0	<	5.0	<	3.0	<	1.0
_	11-Sep-07	3	<	1.0	<	1.0	<	5.0		23.0	<	1.0
Dillution for DEHP 1.1	5-Dec-07	4	<	1.0	<	1.0	<	5.0 5.0	<	3.0	<	1.0
District Office 1.1	3-Dec-07	4	_	1.0	-	1.0	-	5.0	-	3.0	<	1.1
MW19-8	-											
Dilution factor for BTEX 50	15-Nov-99	4	<	0.31	<	0.38	<	0.34	<	0.4	<	4.1
Dilution factor for BTEX 2	1-Aug-01	3		0.5	<	0.2	<	0.2	<	0.4	<	0.4
	5-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2	<	0.4
	19-Nov-03	4	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	17-Jun-04	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	11-Aug-04	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	12-Jan-05	1	<	0.2	J	0.3	<	0.2	<	0.6	<	1
	11-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	27-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	27-Oct-05	4	<	0.2	<	0.2	<	0.2	<	0.6	<	1
MW19-9D												
Dilution factor for BTEX 2	1-Aug-01	3	<	0.2	<	0.2	<	0.2	<	0.2		0.5
	5-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2		1.9
	19-Nov-03	4	<	0.2	<	0.2	<	0.2	<	0.6	J	1
	16-Jun-04	2	<	0.2	<	0.2	<	0.2	<	0.6	J	2
	10-Aug-04	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	J	1
	11-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	27-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	27-Oct-05	4	<	0.2	<	0.2	<	0.2	<	0.6	<	1
MW19-10												
	17-Jun-04	2	<	0.2		0.0		0.0	3			
				0.2	<	0.2	<	0.2	<	0.6	<	1
	11-Aug-04	3 aduplicate	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	11-Aug-04	3 ^{duplicate}	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
_	12-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1
Lower Grab Water Sample	9-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
Upper Grab Water Sample	9-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	26-Jul-05	3	<	0.2	.<	0.2	<	0.2	<	0.6	<	1
	26-Oct-05	4	<	0.2	<	0.2	<	0.2	<	0.6	<	1

TABLE 2 L.E. CARPENTER AND COMPANY (LEC) Borough of Wharton, Morris County, New Jersey Groundwater Monitoring Data

MANUFACATE COLUMNITS COLUMNITS Upil					ANAL	TICAL PARA	METERS		,				
WIFESEY GROUNDWATER QUARTY STANDARDS (NUGWOS) 175,000 175,00	MONITORING WELLS	SAMPLE DATE		E		Eth	ylbenzene	1	Toluene	Tot	al Xylenes		nexylphthala
MW19-11 13-Jan-05													
MW19-11		SC	DLUBILITY LIMIT	1	,700,000		152,000		515,000		175,000		
13-Jan-05	EW JERSEY GROUNDWATER	QUALITY STANDA	ARDS (NJGWQS)		1		700		1,000		1,000		3
13-Jan-05													
Law Creat Water Street T-Apt-05 2	MW19-11	12 lon 05	1		0.2	-	0.0		0.0		0.0		
Type Code Notes Income Type Code							_		-		_		
Reference Refe								_		+		-	
MW19-12 21-Jun-06 2 < 0.2 < 0.2 < 0.6 J 1	Opper Grab Water Sample							_		_		_	
MW19-12						_		_		+		_	
12-Sep-06		20-001-03	-4		0.2	+	0.2	-	0.2	-	0.0	1	1
12-Sep-08 3	MW19-12	21-Jun-06	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
7-Nov-06								-		+		_	
T-Nov-06						_		-		_		_	
6-Feb-07								-		_		_	
26-Jun-07 2			-			_		_		-		+	
28-Jun-07 26-Jun-07 26-Jun-08 < 1.0 < 1.0 < 5.0 < 3.0 < 1.0 < 1.0 < 1.0 < 5.0 < 3.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0 < 1.0								-	-	_		-	
11-Sep-07 3 < 1.0 < 1.0 < 5.0 < 3.0 < 1.0 < 1.0 < 3.0 < 1.0 < 3.0 < 1.0 < 3.0 < 1.0 < 3.0 < 1.0 < 3.0 < 3.0 < 1.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 < 3.			2			_		<		<	3.0	<	1.0
11-Sep-07 3			2 ^{duplicate}	<		<	1.0	<	5.0	<	3.0	<	1.0
A-Dec-07		11-Sep-07	. 3	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
24-Feb-95	-	4-Dec-07	4	<	1.0	<	1.0	<		<		<	1.0
24-Feb-95	GEL2I												
GEI-28 24-Feb-95 1	GEI-ZI	24-Feh-95	1	<	0.3	-	0.3		0.4	-	0.1	-	27
GEI-2S 24-Feb-95 1						_		-				-	
24-Feb-95		0 0011 02	2		0.22	+	0.10	-	0.24	-	0.2		1.4
25-Mar-98	GEI-2S			,									
6-Jun-02 2 1.2 2.6 16 5.1 2.4 18-Dec-03 4 < 0.2 < 0.2 J 0.4 < 0.6 < 1 11-Sep-07 3 < 1.0 < 1.0 < 1.0 < 5.0 < 3.0 < 1.0 MW-25R		24-Feb-95	1	<	8.2		46		1,500		380	-	7.6
6-Jun-02 2		25-Mar-98	1		NS		NS		NS		NS	В	2.5
18-Dec-03		6-Jun-02	2		1.2		2.6		16				
MW-25R		18-Dec-03	4	<	0.2	<		J		<		<	
21-Jun-06 2	-	11-Sep-07	3	<	1.0	<		-		_			
21-Jun-06 2	MW-25D	-				-							
21-Jun-06 2 ^{duplicate} < 0.2 < 0.2 < 0.2 < 0.6 < 1	WW-25K	21-Jun-06	2	<	0.2	<	0.2	<	0.2	<	0.6	-	1
13-Sep-06 3 < 0.2 < 0.2 J 0.5 < 0.6 J 1		21-Jun-06	2 ^{duplicate}			_				_		+	
7-Nov-06						-		-		_		-	
S-Feb-07			-			_						-	
26-Jun-07 2						_		-		-			
26-Jun-07 2 ^{duplicate} < 1.0 < 1.0 < 5.0 < 3.0 1.6						_							
11-Sep-07 3 < 1.0 < 1.0 < 5.0 < 3.0 < 1.0			2 aduplicate			1		-		_		<	
Dilution factor for DEHP is 1.3 6-Dec-0.7 4 < 1.0 < 1.0 < 5.0 < 3.0 < 1.3										<			
MW-27s						_		_				<	
22-Jun-06 2 J 0.6 3.7 3.9 14.0 J 3	Dillution factor for DEHP is 1.3	6-Dec-07	4	<	1.0	<	1.0	<	5.0	<	3.0	<	1.3
11-Sep-06 3	MW-27s												
11-Sep-06 3		22-Jun-06	2	J	0.6		3.7		3.9		14.0	.1	3
T-Nov-06		11-Sep-06				<		<		<		-	
T-Feb-07		7-Nov-06		<		_		+		_		_	
26-Jun-07 2 < 1.0 < 1.0 < 5.0 < 3.0 < 1.0			1	<		_		-				_	
11-Sep-07 3 < 1.0 < 1.0 < 5.0 < 3.0 1.2		26-Jun-07		<		_		_		-			
MW-28s		11-Sep-07	3	<	1.0	<		<					
Dilution factor for BTEX 5 21-Jun-06 2 J 1.6 560 < 1.0 1,400 100	Dillution factor for DEHP is 1.4	4-Dec-07		<		<						<	
Dilution factor for BTEX 5 21-Jun-06 2 J 1.6 560 < 1.0 1,400 100	MW-28s												
Dilution factor for Xylene is 5, DEHP is 10 13-Sep-06 3 J 0.2 210 < 0.2 450 570		21-Jun-06	2	,J	1.6		560	-	1.0		1 400		400
Dilution factor for Xylene is 5, DEHP is 10 13-Sep-06 3 ^{duplicate} J 0.3 220 < 0.2 470 550			3					_					
Dilution factor for DEHP is 20 T-Feb-07		3 ^{duplicate}										THE RESERVE AND PARTY OF THE PA	
Dilution factor for DEHP is 20 7-Feb-07 1 < 1.0 70 < 5.0 150 260 Dilution factor for DEHP is 20 7-Feb-07 1 duplicate < 1.0 58 < 5.0 130 250 27-Jun-07 2 < 1.0 30 < 5.0 56 28 Dilution factor for DEHP is 5 12-Sep-07 3 < 1.0 17 < 5.0 42 49								_					
Dillution factor for DEHP is 20 7-Feb-07 1 duplicate < 1.0 58 < 5.0 130 250 27-Jun-07 2 < 1.0 30 < 5.0 56 28 Dillution factor for DEHP is 5 12-Sep-07 3 < 1.0 17 < 5.0 42 49				_				_					
27-Jun-07 2 < 1.0 30 < 5.0 130 250 Dillution factor for DEHP is 5 12-Sep-07 3 < 1.0 17 < 5.0 42 49													STREET, SQUARE, SPACE
Dillution factor for DEHP is 5 12-Sep-07 3 < 1.0 17 < 5.0 42 49	Disution factor for DEHP is 20							_					
C Doc 07	Dillution factor for DELID in a					-							
	Dillution for DEHP is 1.2	6-Dec-07	4	<	1.0		32	< <	5.0		96		49 14

TABLE 2 L.E. CARPENTER AND COMPANY (LEC) orough of Whatton, Morris County, New Jersey

Borough of Wharton, Morris County, New Jersey Groundwater Monitoring Data

					ANAL	YTICAL PARAM	ETERS					
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene	Etl	nylbenzene		Toluene	То	tal Xylenes	Ethyli	bis-2- hexylphthala (DEHP)
	90	UNITS DLUBILITY LIMIT		ug/l 1,700,000		ug/l 152,000	-	ug/l 515,000		ug/l 175,000	-	ug/l
			_		_				-			
NEW JERSEY GROUNDWATER	QUALITY STANDA	ARDS (NJGWQS)		1		700		1,000		1,000		3
MW-28i												
Dilution factor for BTEX 5	22-Jun-06	2	<	1.0		480	<	1.0		1,300		270
Dillution factor for Xylene and DEHP is 5	13-Sep-06	3	<	0.2	-	72	J	0.6		520		180
Different Floor Floor Floor Published Built II 18 0	7-Nov-06	4	<	0.2		10	<	0.2		14		90
Dillution factor for DEHP is 10	7-Feb-07	1	<	1.0	<	1.0	<	5.0	<	3.0		76
	27-Jun-07	2	<	1.0	<	1.0	<	5.0	<	3.0		3.9
	12-Sep-07	3	<	1.0	<	1.0	<	5.0	<	3.0		21
Diflution for DEHP is 1.3	6-Dec-07	4	<	1.0	<	1.0	<	5.0	<	3.0		1.4
MW-29s				-								
WIVV-235	22-Jun-06	2	<	0.2	J	0.2	<	0.2	J	0.6	1	1
	14-Sep-06	3	<	0.2	<	0.2	<	0.2	J <	0.6	J	1
	9-Nov-06	4	<	0.2	<	0.2	<	0.2	<	0.6	J	31
	7-Feb-07	1	<	1.0	<	1.0	<	5.0	<	3.0	<	1
	27-Jun-07	2	<	1.0	<	1.0	<	5.0	<	3.0	<	1
	11-Sep-07	3	<	1.0	<	1.0	<	5.0	<	3.0	<	1
Deillution for DEHP 1.2	5-Dec-07	4	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
MW-30s												-
IVIVV-3US	21-Jun-06	2	<	1.0		1,200	J	1.3		3,900		740
Dilution factor for BTEX 20, DEHP is 500	13-Sep-06	3	<	4.0		1,200	J	46				
Dilution factor for BTEX 5, DEHP is 100	9-Nov-06	4	<	1.0		540	<	1.0		5,100 2,600		19,000 2,500
STREET IS STEP OF DELL IS 100	7-Feb-07	1		NS - frozen		NS - frozen	_	NS - frozen		NS - frozen		
Dilution factor for BTEX 5, DEHP is 2000	26-Jun-07	2		2.1		300	<	25		1,200		NS - froz
Dilution factor for DEHP is 50	12-Sep-07	3	<	1.0	<	1.0	<	5.0	<	3.0		880
Dilution factor for DEHP is 200	12-Sep-07	3 ^{duplicate}	<	1.0	<	1.0	<	5.0	<	3.0		1,700
Diflution factor for DEHP is12, BTEX is 5	6-Dec-07	4		1.5		34		110		260	1	200
MW-30i												
19199-301	24 1 00		-									
	21-Jun-06	2	J	0.3		38.0		1.4		170.0	J	2
	13-Sep-06	3	<	0.2		1.5	<	0.2		4.9		19
	8-Nov-06	4	<	0.2	J	0.2	<	0.2	<	0.6	J	1
	8-Nov-06	4 ^{duplicate}	<	0.2	J	0.2	<	0.2	<	0.6	<	1
	7-Feb-07	1		NS - frozen		NS - frozen		NS - frozen		NS - frozen		NS - froz
	26-Jun-07	2	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	12-Sep-07	3	<	1.0	<	1.0	<	5.0	<	3.0		1.3
Dillution factor for DEHP 1.2	6-Dec-07	4	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
MW-30d												
	21-Jun-06	2	<	0.2	<	0.2	<	0.2	<	0.6	J	3
	14-Sep-06	3	<	0.2	<	0.2	<	0.2	<	0.6	J	9.0
	8-Nov-06	4	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	7-Feb-07	1		NS - frozen		NS - frozen		NS - frozen		NS - frozen		NS - froze
	26-Jun-07	2	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	12-Sep-07	3	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dillution factor for DEHP 1.1	4-Dec-07	4	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dillution factor for DEHP 1.1	4-Dec-07	4 ^{duplicate}	<	1.0	<	1.0		7.7	<	3.0	<	1.1
Atmospheric Blank	13-Jan-05	1	<	0.2		0.0	-	0.0		0.0		
Diank	8-Apr-05	2			<	0.2	<	0.2	<	0.6	<	1
	26-Jul-05		<_	0.2	<	0.2	<	0.2	<	0.6	<	1
		3	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	27-Oct-05	4	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	28-Feb-06	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	20-Jun-06	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	12-Sep-06	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	7-Nov-06	4	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	8-Feb-07	1	<	1.0	<	1.0	J	1.9	<	3.0	<	1
	27-Jun-07	2	<	1.0	<	1.0	<	5.0	<	3.0	<	1
	11-Sep-07	3	<	1.0	<	1.0	<	5.0	<	3.0	<	1
	5-Dec-07											

TABLE 2

L.E. CARPENTER AND COMPANY (LEC)

Borough of Wharton, Morris County, New Jersey Groundwater Monitoring Data

	ANALYTICAL PARAMETERS													
MONITORING WELLS	SAMPLE DATE	QUARTER	Е	Benzene	Eth	ylbenzene	,	Coluene	Tot	al Xylenes	bis-2- Ethylhexylphtha (DEHP)			
		UNITS		ug/l		ug/l		ug/l		ug/l		ug/l		
	SC	LUBILITY LIMIT	1,	,700,000		152,000		515,000	1	175,000				
EW JERSEY GROUNDWATE	R QUALITY STANDA	ARDS (NJGWQS)		1		700		1,000		1,000		3		
Rinsate Blank	14-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1		
Tunouto Diam	9-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1		
	27-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1		
	27-Oct-05	4	<	0.2	<	0.2	<	0.2	<	0.6	<	1		
	28-Feb-06	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1		
	21-Jun-06	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1		
i k	22-Jun-06	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1		
	13-Sep-06	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1		
	14-Sep-06	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1		
	9-Nov-06	4	<	0.2	<	0.2	<	0.2	<	0.6	<	1		
	9-Nov-06	4	<	0.2	<	0.2	<	0.2	<	0.6	<	1		
	8-Feb-07	1	<	1.0	<	1.0	<	5.0	<	3.0	<	1		
	8-Feb-07	1	<	1.0	<	1.0	<	5.0	<	3.0	<	1		
	27-Jun-07	2	<	1.0	<	1.0	<	5.0	<	3.0	<	1		
	27-Jun-07	2	<	1.0	<	1.0	<	5.0	<	3.0	<	1		
	10-Sep-07	3	<	1.0	<	1.0	<	5.0	<	3.0	<	1		
	12-Sep-07	3	<	1.0	<	1.0	<	5.0	<	3.0	<	1		
	12-Sep-07	3	<	1.0	<	1.0	<	5.0	<	3.0	1	1.1		
	6-Dec-07	4	<	1.0	<	1.0	<	5.0	<	3.0		2.7		
	6-Dec-07	4	<	1.0	<	1.0	<	5.0	<	3.0	<	1		
Trip Blank	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6		NA		
	9-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6		NA		
	27-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6		NA		
	27-Oct-05	4	<	0.2	<	0.2	<	0.2	<	0.6		NA		
	28-Feb-06	1	<	0.2	<	0.2	<	0.2	<	0.6		NA		
	20-Jun-06	2	<	0.2	<	0.2	<	0.2	<	0.6		NA		
	12-Sep-06	3	<	0.2	J	0.2	<	0.2	<	0.6		NA		
	13-Sep-06	3	<	0.2	<	0.2	<	0.2	<	0.6		NA		
	6-Nov-06	4	<	0.2	<	0.2	<	0.2	<	0.6		NA		
	7-Nov-06	4	<	0.2	<	0.2	<	0.2	<	0.6		NA		
	7-Feb-07	1	<	1.0	<	1.0	<	5.0	<	3.0		NA		
	8-Feb-07	1	<	1.0	<	1.0	<	5.0	<	3.0		NA		
	27-Jun-07	2	<	1.0	<	1.0	<	5.0	<	3.0		NA		
	26-Jun-07	2	<	1.0	<	1.0	<	5.0	<	3.0		NA		
	4-Dec-07	4	<	1.0	<	1.0	<	5.0	<	3.0		NA		
	5-Dec-07	4	<	1.0	<	1.0	<	5.0	<		-	NA		

LEGEND

ug/L = micrograms per liter

NJGWQS = New Jersey Groundwater Quality Standards

ROD: Record of Decision

NA = Not Applicable

NS = Not Sampled

ND: No Detection

duplicate = Duplicate sample

Concentration exceeds NJGWQS

1.2

B: Analyte also detected in blank

J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

NOTES

- (1) Low flow sampling initiated 1st quarter 2002
- (2) GEI series wells are piezometers installed by Weston
- (3) GEI series wells, MW-19-3, and MW-19-4 are not sampled under revised groundwater monitoring program effective 1Q05.

L.E.Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWAT STANDARDS	ER QUALITY	NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005(2)
MW-19	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	80	30	589	ND	ND	0.054	3.6 J	NCS NS 150 230 230 3.0 J 2.0 J 33 19 140 95 310 1700 540 380 300 680 NS ND	NS
	3Q04	630	30.9	553	ND	ND	0.12	1.7 J	230	NS
	1Q05	350	17.2	347	0.22	ND	ND	7.4	230	NS
	2Q05 ^L	390	10.8 J	413	2.8	ND	ND	33.3	3.0 J	NS
	2Q05 ^U	1,400	14.8	455	3.2	ND	ND	30.4	2.0 J	NS
	3Q05	3	67.2	1070	0.04	1.3	ND	6		NS
	4Q05	120	23.2	620	0.56	0.88	ND	37.4		NS
	1Q06	25	35.6	559	ND	ND	ND	3.3 J		NS
	2Q06	56	44.4	460	ND	0.43 J	ND	3.2 J	95	ND
Dilution factor for Methane 5	3Q06	60	12.8	435	ND	0.43 J	ND	5.3	310	ND
Dilution factor for Methane 100	4Q06	20	16	411	ND	ND	0.11	2.9 J		ND
	1Q07	140	7	340	ND	ND	ND	ND	540	ND
	2Q07	180	20	1,100	ND	0.62	ND	ND	380	ND
	3Q07	1,200	23	710	ND	0.76	0.11	ND	300	ND
	4Q07	FS	30	500	ND	0.64	0.13	ND	680	ND
MW-19-1	1Q04	NS	NS	NS	NS	NS	NS	NS		NS
	2Q04	100	ND	725	1.4	ND	ND .	32.4	ND	NS
	3Q04	49	3.2 J	928	3.9	ND	ND	35.3	ND	NS
	1Q05	43	ND	404	2.1	ND	ND	27.9	ND	NS
	2Q05 ^L	410	16.4	1440	2.9	ND	ND	34.1	ND	NS
	2Q05 ^U	350	3.2 J	1430	2.8	ND	ND	32.9	ND	NS
	3Q05	53	9.2 J	1140	4.1	ND	ND	39	ND	NS
Dilution factor for Nitrate 2	4Q05	240	12.4	659	4.6	ND ·	ND	44.2	ND	NS
MW-19-2	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10	6.0 J	704	ND	ND	ND	33.6		NS
	3Q04	87	6.0 J	916	0.87	ND	ND	23.9		NS
	1Q05	110	5.2 J	568	0.093 J	0.13 J	ND	69.4		NS
	2Q05 ^L	160	11.6 J	780	0.62	0.17 J	ND	29.6		NS
	2Q05 ^U	150	ND	750	0.64	ND	ND	29.3		NS
	3Q05	8	3.2 J	976	1	0.12 J	ND	27.2		NS
	4Q05	220	ND	864	0.78	ND	ND	60.3		NS
	4Q05D	92	ND	908	0.6	ND	ND	62.1		NS
MW-19-4	1Q06	12	ND	730	2.4	ND	ND	37.4	ND	NIC
	2Q06	520	8.4 J	774	2.8	ND	ND ND	45.8		NS
Dilution factor for Nitrate 5	3Q06	85	ND	740	4.8	ND	ND	50.9		ND
Dilution factor for Nitrate 5	3Q06D	92	ND	733	4.9	ND	ND	50.9		ND
	4Q06	29	ND	529	3	ND	ND	47.1		ND ND
	1Q07	54	3	340	1.7	ND	ND	37		ND
	2Q07	110	1.4	1,100	1.7	ND	ND	29		ND
	3Q07	160	1.2	660	1.8	ND	ND	40		ND
	3Q07D	160	ND	660	1.8	ND	ND	40		ND
	4Q07	FS	1.3	710	2.6	ND	ND	38		ND
	4Q07D	FS	ND	730	2.6	ND	ND	38		ND
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS		NS
	3Q04	180	14	942	0.06 J	ND	ND	15.7		NS
	1Q05	380	3.6 J	174	0.49	ND	ND	15.8		NS
	2Q05 ^L	3000	3.6 J	177	ND	ND	ND	12		NS
	2Q05 ^U	100	3.6 J	141	0.43	ND	ND	8.7		NS
	3Q05	69	6.8 J	463	ND	ND	ND	7.7		NS
	4Q05	58	ND	144	0.38	ND	ND	12.8	3.8 J	NS
	1Q06	12	ND	287	0.97 J	ND	ND	11.2	290	NS
	2Q06	22	9.2 J	190	0.19	ND	ND	14.2	150	ND
Dilution factor for Methane 10	3Q06	30	ND	275	0.12	ND	ND	10.2	700	ND
Dilution factor for Methane 10	4Q06	620	ND	236	0.10	ND	ND	10.9	640	ND
	1Q07	240	7	340	ND	0.51	ND	ND	500	0.011
	2Q07	91	18	350	ND	0.13	ND	ND	570	ND
Dilution factor for Methane 4	3Q07	110	7.8	360	ND	ND	ND	ND	840	ND
	4Q07	FS	5.1	240	0.13	0.14	0.12	7.8	370	ND

L.E.Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWAT STANDARDS	ER QUALITY	NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005 ⁽²⁾
	1001									
MW-19-6	1Q04	NS	NS 40.4.1	NS	NS	NS	NS	NS	NS	NS
	2Q04	35	10.4 J	1670	1.6	ND	ND	37.3	140	NS
	3Q04 1Q05	110 82	18.8	1240 544	1.1	ND	0.062	38.3	140	NS
	-		11.2 J		1.7	ND	ND	44	130	NS
	2Q05 ^L	23	18	1180	1.3	0.29 J	ND	33.5	44	NS
	2Q05 ⁰	160	ND	1190	1	ND	ND	32.7	96	NS
	3Q05 4Q05	90	40.8 10.8 J	1520 940	1.1	ND	ND	35	38	NS
	1Q06	14	4.4 J	634	3.5 1.8	ND ND	ND	47.8	43	NS
	2Q06	14	ND	802	2	ND	ND ND	36.6 38.3	50 44	NS
	2Q06D	15	ND	790	2	ND	ND	37.7	45	ND ND
,	3Q06	75	4.4 J	682	2.6	ND	ND	37.1	32	ND
	4Q06	240	ND	574	2.3	ND	ND	38.3	31	ND
	1Q07	62	5.3	490	2.4	ND	ND	34	21	ND
	2Q07	70	8.7	1,900	2.9	ND	ND	48	230	ND
	3Q07	100	2.6	820	2	ND	ND	40	68	ND
	4Q07	FS	3.2	710	2.3	ND	ND	36	87	ND
MW-19-7	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	110	6.8 J	2110	0.21	ND	ND	47.2	5200	NS
	2Q04D	88	9.2 J	2040	0.21	0.15 J	ND	37.3	5400	NS
	3Q04	2000	4.4 J	1920	1.5	ND	ND	64.4	2400	. NS
Dilution factor for Methane 250	1Q05	75	6.0 J	774	3.2	ND	ND	29.1	10,000	NS
Dilution factor for Methane 250	1Q05D	77	7.2 J	754	3.2	ND	ND	30.5	11,000	NS
	2Q05 ^L	32	54	472	ND	0.50 J	0.45	ND.	13,000	NS
	2Q05 ⁰	41	48	481	ND	0.35 J	0.32	ND	10,000	NS
	3Q05 ^L	17	45.6	1450	ND	ND	0.3	19.2	2,900	NS
	3Q05 ^U	17	31.6	1280	0.22	0.29 J	0.1	25.7	1,600	NS
Dilution factor for Methane 250	4Q05	16	32	926	0.16	0.5	0.23	8.9	7,700	NS
	1Q06	14	33.2	621	ND	ND	0.3	2.2 J	10,000	NS
	1Q06D	10	36.8	628	ND	ND	0.3	1.6 J	10,000	NS
Dilution factor for Methane 200	2Q06	68	16.8	655	0.87	ND	0.16	12.9	11,000	ND
Dilution factor for Methane 100	3Q06	79	9.2 J	799	2.1	ND	0.15	15.1	8,600	ND
Dilution factor for Methane 100	4Q06	600	4.4 J	568	3.4	ND	ND	31.3	5,600	ND
Dilution factor for Methane 4 Dilution factor for Methane 5	1Q07	38	18	420	0.59	ND	0.31	11	1,200	ND
Dilution factor for Methane 5	1Q07D 2Q07	40	19	440	0.69	ND	0.31	12	1,300	ND
	3Q07	130 890	4.4	610	0.25	ND	ND	12	530	ND
	4Q07	FS	1.8	590 1,200	0.39 2.6	ND 0.23	ND ND	16	120	ND
	1007		2.2	1,200	2.0	0.23	ND	21	170	ND
MW-19-8	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	45	14.4	1120	ND	ND	0.15	22.8	79	NS
	3Q04	15	7.2 J	573	ND	0.24 J	0.12	11.5	790	NS
Dilution factor for Methane 5	1Q05	91	25.2	1150	ND	ND	0.18	16.3	510	NS
	2Q05	270	20	796	ND	ND	ND	23.7	5.3	NS
	3Q05	ND	8.8 J	876	0.33	0.26 J	ND	20.3	74	NS
	4Q05	210	4.4 J	926	0.88	ND	ND	24.6	24	NS
MW 40 0D	1001	110								
MW-19-9D	1Q04	NS 240	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	210	6.0 J	621	0.14	0.33 J	ND	18.2	1300	NS
	3Q04 1Q05	NS NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q05	NS NS	NS NS	NS NS	NS NS	NS	NS	NS	NS	NS
	3Q05	NS NS	NS NS	NS NS	NS NS	NS NS	NS	NS	NS	NS
	4Q05	NS	NS	NS NS	NS NS	NS NS	NS NS	NS	NS	NS
	. 250		110	140	140	CNI	INO	NS	NS	NS
MW-19-10	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	34	6.8 J	563	ND	ND	ND	18	2.6 J	NS NS
	3Q04	18	10.4 J	908	ND	ND	ND	19.2	3.3 J	NS NS
	3Q04D	22	10.8 J	890	ND	0.24 J	ND	17.9	2.9 J	NS NS
	1Q05	29	5.2 J	625	ND	ND	ND	16.9	74	NS NS
	2Q05 ^L	170	32.4	653	ND	ND	ND			
	2Q05 ^U	93	32	691	ND			18.1	48	NS
	2000	90	92	031	IND	0.12 J	ND	18.3	48	NS
	3Q05	26	10.4 J	560	ND	ND	ND	16	ND	NS

L.E.Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWAT STANDARDS	ER QUALITY	NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005(2)
1004 40 44	4005	0.40	40.1			LUB				
MW-19-11	1Q05	940	4.8 J	4750	2.2	ND	ND	65.6	9.9	NS
	2Q05 ^L	NS	64	731	ND	0.42 J	ND	18	930	NS
	2Q05 ^U	14	27.2	740	ND	ND	ND	17.2	1,200	NS
	3Q05	63	106	555	ND	ND	0.11	21.5	26	NS
Dilution factor for Methane 10	4Q05	80	15.2	854	ND	0.32 J	ND	25.5	440	NS
MW-19-12	2Q06	4000	11.2 J	548	0.048 J	ND	ND	15.1	4.8 J	ND
Dilution factor for Methane 5	3Q06	170	6.4 J	822	0.36	ND	ND	22.9	170	ND
	4Q06	2	4.4 J	716	0.22	ND	ND	21.3	130	ND
	4Q06D	2	ND	718	0.17	ND	ND	21.8	130	ND
	1Q07	4	5.5	400	0.56	0.12	ND	20	ND	ND
	2Q07	55	ND	240	0.93	ND	ND	13	ND	ND
	2Q07D	8	ND	270	0.93	ND	ND	13	ND	ND
	3Q07	73	ND	290	0.89	ND	ND	13	ND	ND
	4Q07	FS	3	260	0.9	ND	ND	11	ND	ND
MW 25D	2000	4400	40.0	0.40	ND	0.04.1	NE		110	
MW-25R	2Q06	1100 >5700	18.8	340	ND	0.24 J	ND	2.9 J	140	ND
	3Q06		279	329	ND	0.24 J	0.14	3.3 J	30	ND
	4Q06	1000	16.8	331	ND	ND	ND	6.2	25	ND
	1Q07	240	49	300	ND	0.12	ND	ND	29	ND
	2Q07 2Q07D	>5700 >5700	100	340	ND	0.15	ND	5.9	33	ND
			100	350	ND	0.11	ND	6.4	32	ND
	3Q07 4Q07	>5700 FS	10 490	260 380	ND ND	ND 0.41	ND 0.43	14	ND ND	ND
	4007	- 13	490	300	ND	0.41	0.43	10	ND	ND
MW-27s	2Q06	NR	5,180	630	ND	0.26 J	4.8	43.3	20	ND
	3Q06	>5700	3,850	798	ND	ND	1.4	108	3.7 J	ND
	4Q06	>5700	166	753	0.16	ND	0.82	116	2.3 J	ND
	1Q07	>5700	580	650	ND	ND	0.19	91	ND	ND
	2Q07	>5700	48	640	ND	ND	3.5	97	ND	ND
	3Q07	270	150	630	ND	ND	0.12	84	ND	ND
	4Q07	FS	260	620	0.16	0.45	ND	87	22	ND
1001.00										
MW-28s	2Q06	6	35.2	350	ND	0.35 J	0.25	2.6 J	3,100	ND
Dilution factor for Methane 200	3Q06	1,300	22.4	460	ND	0.26 J	0.37	ND	3,200	. ND
Dilution factor for Methane 200	3Q06D	1,500	21.6	468	ND	ND	0.37	1.7J	3,100	ND
Dilution factor for Methane 100	4Q06	1	24.8	347	ND	ND	0.43	2.0 J	4,400	ND
	1Q07	460	180	350	ND	ND	0.42	ND	170	ND
Dilution factor for Methane 10	1Q07D	230	93	360	ND	ND	0.43	ND	810	0.0051
Dilution factor for Methane 4	2Q07 3Q07	78 ND	49	400	ND	0.14	0.34	ND	1,600	ND
Dillution for Methane is 40	4Q07	320	50	350	ND	ND	0.34	ND	1,100	ND
Diliddon for Mediane is 40	4007	320	42	330	ND	0.19	0.38	ND	1,900	ND
MW-28i										
Dilution factor for Methane 10	2Q06	290	28	367	0.047 J	ND	0.22	2.2 J	1,900	ND
Dilution factor for Methane 100	3Q06	>5,700	42.8	338	ND	ND	0.19	3.5 J	1,500	ND
Dilution factor for Methane 100	4Q06	440	15.6	335	ND	ND	0.22	3.0 J	1,500	ND
	1Q07	110	34	380	0.1	0.2	0.35	ND	410	ND
Dilution factor for Methane 4	2Q07	24	23	330	ND	0.27	0.29	ND	710	ND
	3Q07	37	37	300	ND	0.28	0.27	ND	560	ND
	4Q07	160	34	360	ND	0.47	0.64	5.1	370	ND
NUM 00-										
MW-29s	2Q06	250	58.8	504	ND	11.9	0.45	4.0 J	1,200	ND
Dilution factor for Methane 250	3Q06	>5700	54	546	ND	9.9	0.32	1.9 J	5,000	ND
Dilution factor for Methane 100	4Q06	190	35.6	509	ND	8.3	0.29	3.9 J	5,200	ND
Dilution factor for Methane 4	1Q07	30	41	510	0.14	7.5	0.34	ND	450	0.0084
Dilution factor for Methane 4	2Q07 3Q07	150	56	490	ND	8.3	0.29	ND	1,000	ND
Dillution for Methane 10	4Q07	1900 FS	54 66	520	ND	8.1	0.4	ND	2,500	ND
Simulation for incuration 10	4001	13	00	500	ND	9.3	0.44	ND	3,100	0.014
MW-30s	2Q06	2200	75.6	348	ND	0.86	0.17	5.2	3 000	ND
Dilution factor for Methane 200	3Q06	>5700	132	457	ND	0.89	0.17	ND ND	3,800	ND
Dilution factor for Methane 100	4Q06	>5700	147	448	ND	1.1	0.32		2,500	ND
Dilution factor for Methane 10	2Q07	>5700	650	350	ND	0.94		5.5 ND	6,500	ND
Dilution factor for Methane 4	3Q07	>5700	220	440	ND	1	1.6 0.34	ND ND	1,800	ND
Phatier ideal for Mediate 4				1.70	140	1	0.34	ND	1,700	ND
Dilution factor for Methane 4	3Q07D	>5700	180	400	ND	1.1	0.33	ND	1,500	ND

L.E.Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring MNA Analytical Data

UNITS QUALITY 2Q06	Plate Count cfu/ml NCS	mg/l	mg/l	Nitrogen	Nitrogen	(total)			Lead
QUALITY		mgn		mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
2006		NCS	500	NCS	NCS	NCS	250	NCS	.005(2)
2006									
	>5700	18.8	369	ND	1.8	0.15	8.2	1,100	ND
3Q06	290	41.6	414	ND	0.83	0.13	3.2 J	1,200	ND
4Q06	40	17.2	456	ND	0.89	0.24	11.1	930	ND
1Q06D	43	41.2	478	ND	ND	0.23	11.1	930	ND
2Q07	36	34	300	ND	0.8	0.23	ND	680	ND
3Q07	ND	41	430	ND	1	0.33	ND	97	ND
4Q07	470	69	530	ND	1.1	0.45	ND	ND	ND
						01.10	- 110	110	110
2Q06	2800	11.6	248	ND	0.30 J	ND	9.7	45	ND
3Q06	>5700	6.4 J	288	0.043 J	ND	. ND	10.6	5.3	ND
4Q06	47	5.6 J	375	ND	ND	ND	12.5		ND
2Q07	130	13	240	ND	0.11	ND			ND
3Q07	78	9	260	ND	0.16	ND			ND
4Q07	FS	20	300	ND	0.24	0.11	11	ND	ND
1Q07D	FS	20	270	ND	0.19	0.28	11	ND	ND
3Q07	66	8	460	2.20	ND	ND	25	490	ND
1Q05	> 5700	ND	ND	ND	ND	ND	ND	ND	NS
4Q05	5	ND	10.0 J	7.1.00					NS
1Q06	2	ND	ND						NS
2Q06	38	ND	ND	ND	ND	ND			ND*
3Q06	ND	ND	ND	ND	ND	ND	ND	ND	ND*
4Q06	ND	ND	ND	ND	ND	ND	ND	ND	ND*
1Q07	1	ND	ND	ND	ND	ND	ND	22	ND
2Q07	ND	ND	19	ND	ND	ND	ND		ND
3Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND
4Q07	ND	ND	ND	ND	0.16	ND	ND	ND	ND
1Q05	36	ND	ND	ND	ND	ND	ND	ND	NS
3Q05	ND	ND							NS
4Q05	ND	ND	ND						NS
1Q06	ND	ND	ND						NS
2Q06	120	ND	ND						ND*
2Q06	250	ND	ND						ND*
3Q06	45	ND	ND	ND	ND				ND*
3Q06	84	ND	ND	ND	ND				ND*
4Q06	56	ND	ND	ND	ND				ND*
1Q07	ND	ND	ND	ND	ND				ND
1Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND
2Q07	1	ND	2.5	ND	ND	ND		110	ND
2Q07	2	ND	ND	ND	ND	ND			ND
3Q07	ND	ND	ND	ND	ND				ND
3Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND
4Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND
4Q07	ND	ND	11	0.17	ND	ND	ND		ND
23412341223341122334	2Q07 3Q07 4Q07 Q07D 3Q07 4Q07 3Q07 3Q07 4Q05 4Q06 2Q06 3Q06 4Q06 1Q07 2Q07 3Q07 4Q05 1Q06 2Q07 3Q07 4Q06 2Q06 3Q06 4Q06 1Q07 2Q07 3Q06 4Q06 1Q06 2Q06 3Q06 4Q06 1Q07 4Q06 1Q07 4Q06 4Q06 4Q06 4Q06 4Q06 4Q06 4Q06 4Q06	2Q07 130 3Q07 78 4Q07 FS Q07D FS 3Q07 66 1Q05 > 5700 4Q05 5 1Q06 2 2Q06 38 3Q06 ND 4Q06 ND 1Q07 1 2Q07 ND 3Q07 ND 1Q06 ND 1Q06 ND 1Q07 ND 1Q06 ND 1Q07 ND 1Q06 ND 1Q07 ND 1Q07 ND 1Q06 ND 1Q07 ND 1Q07 ND 1Q07 ND 1Q06 ND 1Q07 ND 1Q07 ND 1Q07 ND 1Q07 ND 1Q08 ND 1Q09 ND 1Q09 ND 1Q09 ND 1Q00 ND	2QQ07 130 13 3QQ07 78 9 4QQ07 FS 20 QQ07D FS 20 3QQ07 66 8 1QQ05 S ND 4QQ05 5 ND 1QQ06 2 ND 2QQ06 38 ND 3QQ06 ND ND 1QQ07 1 ND 1QQ07 ND ND 3QQ07 ND ND 3QQ07 ND ND 4QQ05 ND ND 4QQ07 ND ND 4QQ07 ND ND 4QQ07 ND ND 4QQ05 ND ND 4QQ06 ND ND 4QQ07 ND ND 4QQ06 ND ND 4QQ06 ND ND 4QQ06 ND ND 4QQ06 ND ND	2QQ07 130 13 240 3QQ07 78 9 260 4QQ07 FS 20 300 QQ07D FS 20 270 3QQ07 66 8 460 1QQ05 > 5700 ND ND 4QQ06 2 ND ND 1QQ06 2 ND ND 2QQ06 38 ND ND ND 3QQ06 ND ND ND ND 4QQ06 ND ND ND ND 4QQ07 ND ND ND ND 4QQ06 ND ND ND ND 4QQ07 ND ND ND ND	2007 130 13 240 ND 3007 78 9 260 ND 4007 FS 20 300 ND 4007 FS 20 300 ND 4007 FS 20 270 ND 3007 66 8 460 2.20 4005 5 ND 10.0 J ND 4006 2 ND ND ND ND 4006 38 ND ND ND ND 4006 ND ND ND ND 4007 1 ND ND ND 4007 ND ND ND ND 4008 ND ND ND ND 4009 ND ND ND 4000 ND 4000 ND 4000 ND ND 4000 ND 4000 ND 4000 ND	130	130	130 13 240 ND 0.11 ND 10	2Q07 130 13 240 ND 0.11 ND 10 77 73 73 78 9 260 ND 0.16 ND 11 ND ND ND ND ND ND

Notes:

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

(1) Sulfate results reported through 4Q06 have a dilution factor of 5, except for blank samples or unless otherwise noted. Starting 1Q07, there is no dilution factor for sulfate unless noted otherwise.

(2) NJ CLASS IIA GWQC, NJ SWQC [FW2] and PQL are for Total Lead

NCS: No Criteria Specified by NJDEP

NS = Not Sampled

FS= Samples frozen in transit to lab.

ND = Not Detected

Lower Grab Sample

Upper Grab Sample

* Total Lead

L.E.Carpenter and Company, Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring MNA Field Data

Well ID	Event	DO (mg/L)	рH	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg
MW-19	1Q04.	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10.97	7.23	24	890	2	13.94	NM	160	70
	3Q04	0.1	7.62	10	1179	2	16.18	<10	200	95
	1Q05	0.2	7.67	100	590	5	11.82	9	241 ⁽¹⁾	121
	2Q05 ^L	1 1	7.84	NM	734	10	8.6	0.3	30	<10
	2Q05 ^U	1 1	7.69	NM	760	10	8.46	0.4	29	<10
	3Q05	1 1	7.03	185	1920	9	15.86	>10	110	60
 	4Q05	5.34	6.47	87	1005	4	15.01	>10	110	18
	1Q06 2Q06	3.53 4.92	6.59 7.66	-50 -43	978 905	13	8.72	>10	11	>100
	3Q06	0.34	7.08	-24	761	9 5	13.98 16.2	>10 18	225 100	60 90
	4Q06	0.08	6.53	-76.7	579	7	15.36	>10	275	70
	1Q07	0.15	6.59	-90.3	444	5	10.38	20	250	35
	2Q07.	0.05	6.69	-56	1640	2.5	13.7	>20	100	120
	3Q07	0.1	6.59	-94	1201	2	17.05	>20	200	80
<u> </u>	4Q07	0.2	6.36	5	865	5.1	12.54	>20	225	40
100/40/4	1004	 	110							
MW-19-1	1Q04	NS 13.0	NS	NS.	NS 1070	NS	NS	NS	NS	NS
****	2Q04 3Q04	13.9	7.22	180 80	1373 1910 _	10	13.9	NM	125	17
	1Q05	1 1	7.80	213		. 10	18.49	0.2	90	28
	2Q05 ^L	0.8	7.60		676	10	11.49	0	152 ⁽¹⁾	30
	2Q05 ^U			NM	2540	22	9.15	0.2	75	<10
	3Q05	1 1	7.67 7.22	NM 208	2540 2260	10 20	8.5	0.1	90	<10
	4Q05	6.54	7.06	208	1149	36	15.23 16.70	0.1	100	10
	1000	1 0.04	7.00	201	1143		16.70	0.1	45	<10
MW-19-2	1Q04	. NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	4.45	7.30	83	1199	6	13.97	NM	210	60
- , .	3Q04	5	7.45	59	1830	9	16.97	2	130	15.5
	1Q05	1	7.30	249	825	10	11.02	0	395 ⁽¹⁾	63
	2Q05 ^L	0.8	7.80	NM.	1312	29	7.76	0.1	100	<10
	2Q05 ^U	0.8	7.76	NM	1316	10	8.00	0.1	100	10
	3Q05	1	7.59	204	1980	3	14.87	1	100	10
	4Q05	4.75	6.79	290	1442	1	16.50	0.2	105	15.5
MW-19-4	1000	7.62	7 50		- 4054					
m144-13-4	1Q06 2Q06	6.53	7.53 7.74	-64 116	1351 1442	14	5.61	0.6	12	>50
	3Q06	2.93	7.43	92	1335	9	13.93 18.68	0.2	100	17
	4Q06	4.03	7.69	172	886	10	16.67	0	10	19 22
	1Q07	2.01	6.95	105	418	17	11.71	Ö	125	11
	2Q07	0.8	6.74	-1	1800	7.8	14.59	0.1.	75	16
	3Q07	0.4	7.16	45	1187	10	17.68	0.05	125	26
	.4Q07	0.6	7.57	216	1385	6	12.58	.0	50	20
404.44	ļ	 		1						
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
· · · · · · · · · · · · · · · · · · ·	2Q04 3Q04	10.16	7.02	41	1550	4	12.89	NM .	130	70
 	1005	1 1	7.26	87	1740	19	16.3	2	150	60
	2Q05 ^L	+	7.94	226	269	9	10.59	0	126(1)	63_
	2Q05 ^U	0.8	7.94	NM	2640	10	8	0	45	16.
	3Q05	0.8	7.99 7.44	NM 104	2100	38	6.96	0	45	10.5
	4Q05	1.84	6.27	184 217	920 216	2	15.15	>10	100	35
	1Q06	3.35	6.35	249	512	10 3	15.15 8.17	0.1	30	11
	2Q06	6.79	7.50	36	327	5	14.4	0.3	12	>100
	3Q06	2.87	7.45	143	406	10	16.38	0.5	90 100	27 22
	4Q06	6.3	7.55	184	347	6	14.49	0.4	145	32
	1Q07	0.16	6.53	14.2	370	4	10.08	1	175	16
	2Q07	0	7.04	-36	539	6.8	14	>20	190	7.0
	3Q07	0.1	7.09	36	530	5	16.18	1	160	65
	4Q07	1.6	6.17	45	311	3.6	12.59	0.4	130	30
MW-19-6	1Q04	l Ne	ME	NA	- ,,, +					
m 44-19-0	1Q04 2Q04	NS 5.48	NS	NS SC	NS 2640	NS 10	NS .	NS	NS	NS
	3Q04	3.46	6.86 7.43	56	2640	10	15.24	NM.	80	33
	1Q05	1 1		83	2490	4	16.61	0.4	125	20
	2Q05 ^L		7.73	241	867	12	11.79	0	204 ⁽¹⁾	41
		1	7.50	NM	1870	27	10.64	0.1	75	15
	2Q05 ^U 3Q05	1	7.48	NM 101	1790	2	9.89	1	80	20
*************************************	4Q05	5.39	7.28 5.86	191	3030	36	15.2	0.4	70	20
	1Q06	3.71	6.60	307 237	1550 1116	9	14.76	0	80	10.5
	2Q06	6.61	7.53	35	1520	5	9.93	0.2	12 125	>100 23

L.E.Carpenter and Company, Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring MNA Field Data

Well ID	Event	DO (mg/L)	pH	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkaiinity (ppm)	CO2 (mg/L)
	4Q06	4.7	7.47	207	941	8	15.45	0	70	40
	1Q07	1.16	6.82	69.5	602	8	11.38	0.2	90	16
	2Q07	1 1	6.69	-35	2720	5.6	14.36	0.1	140	50
	3Q07 4Q07	0.8	7.16 7.44	12 51.4	1458 1283	5.9	17.3 12.92	0.6 0.3	160 25	42 17
					,		,			
MW-19-7	1Q04 2Q04	NS 5.89	NS 6.82	NS 48	NS 380	NS 6	NS 14.34	NS NM	NS 95	NS 90
· · · · · · · · · · · · · · · · · · ·	3Q04	1 1	6.92	113	4040	2 .	16.77	1	75	70
	1Q05	0.6	7.16	281	1388	1	11.34	3	200(1)	63
	2Q05 ^L	0.05	7.82	102	938	25	11.7	15	160	36
	2Q05 ^U	1	7.80	NM	961	49	11,22	15	200	- 29
	3Q05 ^L	0.8	7.03	90	2670	17	14.76	>10	95	0.8
· · · · · · · · · · · · · · · · · · ·	3Q05 ^U	1 1	7.02	185	2460	5	16.02	>10	70	35
	4Q05	1.58 1.86	5.98 6.20	-44 43	1434	14	14.85	>10 >10	11	30 >100
	1Q06 2Q06	3.87	7.41	-33	1130 1284	9	10.81 13.28	>10	>100 170	70
	3Q06	0.6	7.28	33	1254	10	15.8	9	200 .	50
	4Q06	0.44	7.47	204	970	7	15.23	2	185	70
	1Q07	0.12	6.80	-84.3	518	6	11.52	9	175	. 23
	2Q07	1 0	6.98	36	1397	4.5	15.68	2	100	38
	3Q07 4Q07	0.2	7.05 6.48	181 74.2	1016 2126	5 5.3	17.48 12.7	0.2 0.2	120 70	38 30
	700	1			2120	 	12.1	0.2	,,	30
MW-19-8	1Q04	NS.	NS	. NS.	NS.	NS.	NS	NS	NS	NŞ
	2Q04	3.98	6.9	-24	2010	10	15.69	MM	125	30
· · · · · · · · · · · · · · · · · · ·	3Q04 1005	0.4	7.52	48	1093	7	18.29	2	100	19
	1Q05 2Q05	0.3	7.06 7.92	161 NM	177 1510	16 47	12.92 10.82	10	142 ⁽¹⁾ 70	28 19
	3Q05	0.0	7.07	147	1820	2	18.86	3	80	19
	4Q05	6.74	6.10	330	1460	5	17.19	3	85	20
MW 40 0D	1004	l Ne	NC	N/C	MO		110	**	**	**
MW-19-9D	1Q04 2Q04	NS 3.03	NS 7.11	NS -28	NS 480	NS	NS 14.64	***	**	**
	3Q04	0.2	7.40	8	545	35	15.7	. **	**	**
	1Q05	1.5	7.14	193	871	267	11.58	**	**	**
	2Q05	0.05	7.91	NM	471	70	12.12	**	**	4:4
 	3Q05 4Q05	0.94	7.35 5.78	189 -91	552 465	1	16.4	**	##	**
 	#Q05	0.94	3.76	-91	465	1	13.96		,,,	
MW-19-10	1Q04	NS	NS	NS.	NS	NS	NS	NS	NS	NS
· · · · · · · · · · · · · · · · · · ·	2Q04	3.82	6.78	85	1050	7	13.94	NM	80	25
	3Q04	0.1	7.35	107	1498	11	15.56	1.5	65	20
	1Q05	0.15	7.25	285	1039	28	13.19	2	127 ⁽¹⁾	20
	2Q05 ^L	0.8	7.47 7.48	NM NM	1209 1282	52	12.18	0.4	. 70	13
	3Q05	1 1	7.62	212	1148	41 18	11.18 16.47	0.6	75 70	13
	4Q05	9.89	6.73	229	1167	39	15.00	1	60	.10
	1005									
MW-19-11	1Q05 2Q05 ^L	0.8	7.01	215	740	8	10.3	0	205 ⁽¹⁾	65
	2Q05 ^U	0.8	7.88 7.80	NM NM	1424 1442	38	12.18	4	110	17.
	3Q05	1 1	7.72	209	1155	10 77	12.12 16.63	4 1	90 80	15 12.5
	4Q05	2.5	6.51	271	1470	10	15.86	0.4	85	15
100/40 40	2000	1 000	7.00		40.00					
MW-19-12	2Q06 3Q06	0.99	7.29	-33	1046	9	16.06	4	120	100
	4Q06	0.21	7.41 7.60	5 191	1460 1234	18 10	17.9	4	. 12	17
	1Q07	0.18	6.91	-39.6	680	8	16.72 12.29	3.5 1.5	1000	17 10
			7.24	137	473	5	18.56	0	110	11
	2Q07	2			463	2	19.2	Ö	85	0 .
	3Q07	2	7.45	118	100					
			7.45 7.55	2.7	439	8.1	9.68	0	110	<10
	3Q07 4Q07	9	7.55	2.7	439					
MW-25R	3Q07 4Q07 2Q06	9 0.47	7.55 6.77	2.7 -102	439 620	9	14.74	3.5	75	17
	3Q07 4Q07 2Q06 3Q06	2 9 0.47 0.97	7.55 6.77 5.57	-102 90.1	620 572	9 229	14.74 15.67	3.5 5	75 160	17 350
	3Q07 4Q07 2Q06	9 0.47	7.55 6.77	2.7 -102 90.1 -41.2	439 620 572 517	9 229 24	14.74 15.67 11.33	3.5 5 1.5	75 160 90	17 350 100
	3Q07 4Q07 2Q06 3Q06 4Q06 1Q07 2Q07	2 9 0.47 0.97 0.25 1.8 0.35	7.55 6.77 5.57 7.14 6.80 6.69	2.7 -102 90.1 -41.2 -100.4 -65.8	620 572	9 229	14.74 15.67	3.5 5	75 160	17 350
	3Q07 4Q07 2Q06 3Q06 4Q06 1Q07 2Q07 3Q07	2 9 0.47 0.97 0.25 1.8 0.35	7.55 6.77 5.57 7.14 6.80 6.69 6.98	2.7 -102 90.1 -41.2 -100.4 -65.8 -75.3	620 572 517 636 453 355	9 229 24 55 123 NM-mtr broke	14.74 15.67 11.33 7.15 14.38 18.93	3.5 5 1.5 3 3.5 0.3	75 160 90 100 40 75	17 350 100 150 20
	3Q07 4Q07 2Q06 3Q06 4Q06 1Q07 2Q07	2 9 0.47 0.97 0.25 1.8 0.35	7.55 6.77 5.57 7.14 6.80 6.69	2.7 -102 90.1 -41.2 -100.4 -65.8	620 572 517 636 453	9 229 24 55 123	14.74 15.67 11.33 7.15 14.38	3.5 5 1.5 3 3.5	75 160 90 100 40	17 350 100 150 20

L.E.Carpenter and Company, Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring MNA Field Data

Well ID	Event	DO (mg/L)	рН	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
	3Q06	0.54	7.72	45	1437	247	19.44	. 0	200	14
	4Q06	2.36	7.59	134	1275	>1000	16.39	0	<10	20
	1Q07	4	7.15	-10.8	1078	>1000	8.31	NM - sediment	NM - sediment	NM - sediment
	2Q07	8.29	7.09	105.6	765	>1000	15.23	NM - sediment	NM - sediment	NM - sediment
	3Q07	0.4	7.24	27	1017	>1000	17.58	NM - sediment	NM - sediment	NM - sediment
	4Q07	1 1	7.16	165	1002	997	11.34	NM - sediment	NM - sediment	_NM - sediment
MW-28s	2Q06	0.11	7.69	-478	687	12	14.38	>10	82	37
	3Q06	0.27	5.96	-101.8	831	14	17.69	>20	180	90
·	4Q06	0.04	7.22	-146.8	684	20	15.27	>20	200	55
	1Q07	2.1	6.74	-176.2	650	12	9:75	>20	160	22
	2Q07	0.48	7.01	-138.3	568	36	15.36	>20	180	35
	3Q07 4Q07	0.1	7.1 6.86	-132.1 -120.4	576 634	9.6 7.03	16.99 11.97	>20 >20	180 170	50 22
	4007	0.2	0.00	-120.4	034	7.03	11.51	-20	170	
MW-28i	2Q06	0.23	7.88	-126	756	8	15	>10	135	28
	3Q06	0.51	7.59	-98	649	14	16.42	18	90	27
	4Q06 1Q07	0.04	7.37 6.80	-146.7 -173.3	598 686	13 4.9	14.82 10.7	>20 >20	150 140	25 23
	2Q07	0.18	7.07	-170	507	17	14.9	>20	145	24
	3Q07	0.18	7.15	-104.7	536	5.7	16.19	>20	170	30
	4Q07	0.26	6.59	-58.2	67.7	7.44	11.96	>20	160	20
MW-29s	2Q06	3.63	7.32	-32	1021	68	18.45	>10	260	95
	3Q06	0.36	6.73	-109.8	1090	10	20.63	18	310	80
	4Q06	0.05	6.85	-97.9	775	11	17.04	>10	350	65
	1Q07	0.7	6.53	-163.9	902	5.6	8.77	18	240	30
	2Q07	4.03	6.71	-113.8	766	31	18.48	>10	225	25
	.3Q07	0.7	6.66	-13.9	881	9.84	21.12	>20	325	100
	4Q07	0.2	7.12	-35	960	8	13.51	>20	285	75
MW-30s	2Q06	0.14	6.76	-180	672	34	16.81	>10	78	14
	3Q06	0.39	5.66	73.1	704	155	18.9	1.8	60	250
	4Q06	0.01	7.09	-146.1	627	. 94 .	13.46	>20	200	. 60
	1Q07	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q07	0.34	6.99	-159.4	458	213	18.55	>20	225	40
·	3Q07	0.3	7.05	-128.7	696	100	19.15	>20	230	. 37
	4007	0.8	7.45	-50	871	67	7.74	>20	200	43
MW-30i	2Q06	0.33	7.70	-194	687	8	15.22	5.5	75	19
	3Q06	0.43	7.52	-63	7.77	9	17.13	18	180	32
	4Q06	0.2	7.16	-144.2	827	42	14.2	>10	>1000	45
	1007	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q07	0.33	6.99	-146.8	486	41	15.23	>20	145	25
	3Q07	0.4	7.08	-19.8	661	NM-mtr broke	17.07	>20	200	29
	4Q07	1 1	7.39	-15	889	136	8.28	>20	200	24
MW-30d	2Q06	0.3	5.35	-131	. 449	10	14.45	2	100	30
	3Q06	2.49	7	-44	458	15	15.07	2.5	70	70
	4Q06	0.18	7.29	-99	637	33	13.39	5	130	17
	1Q07 2Q07	NS-frozen 0.38	NS-frozen 7.03	NS-frozen -95.7	NS-frozen 340	NS-frozen 69	NS-frozen 14.51	NS-frozen 3.5	NS-frozen 115	NS-frozen 12
	3Q07	0.8	7.03	22.6	401	NM-mtr.broke	14.73	3.5 3	130	12
	4Q07	0.8	7.05	128	500	80	10.02	0.4	100	<10
GEI-2S	3Q07	0.6	6.47	-29.8	586	15	15.28	0	150	30

Notes

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

NS = Not Sampled

NM = Not Measured

^{**} Additional field MNA parameters not required for MW-19-9D.

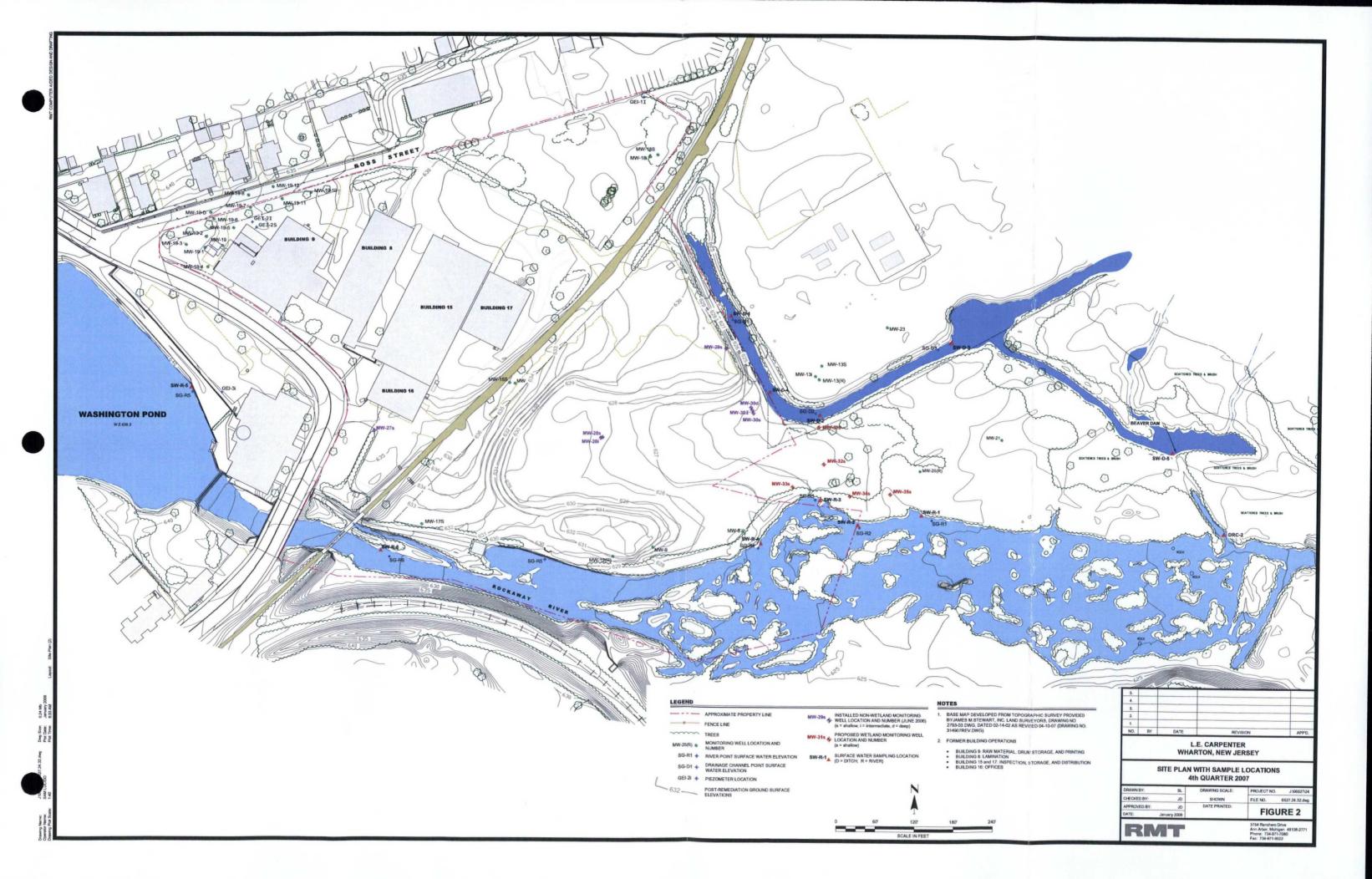
⁽¹⁾ Laboratory analyzed for alkalinity due to destroyed field kits.

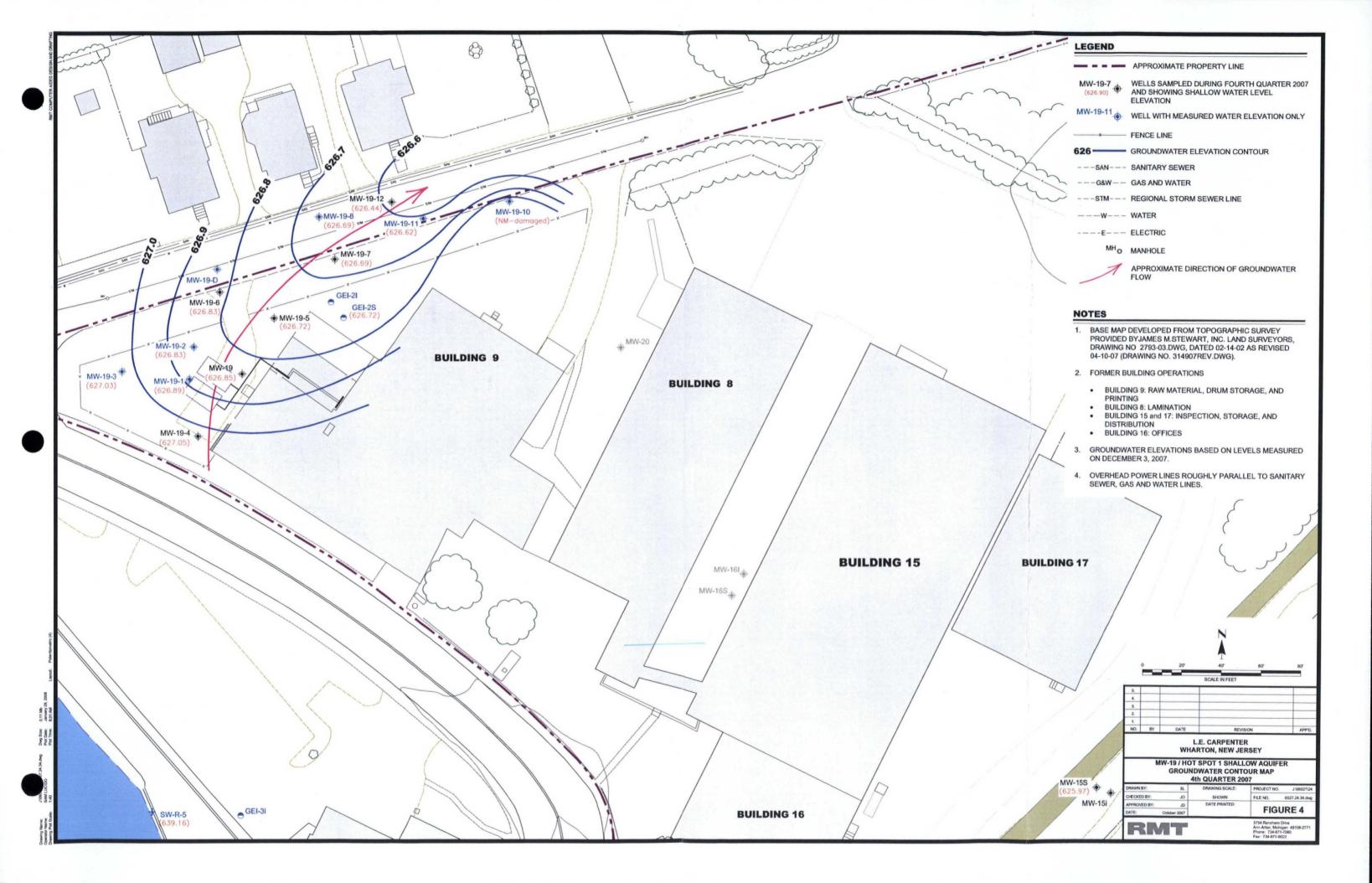
Lower Grab Sample

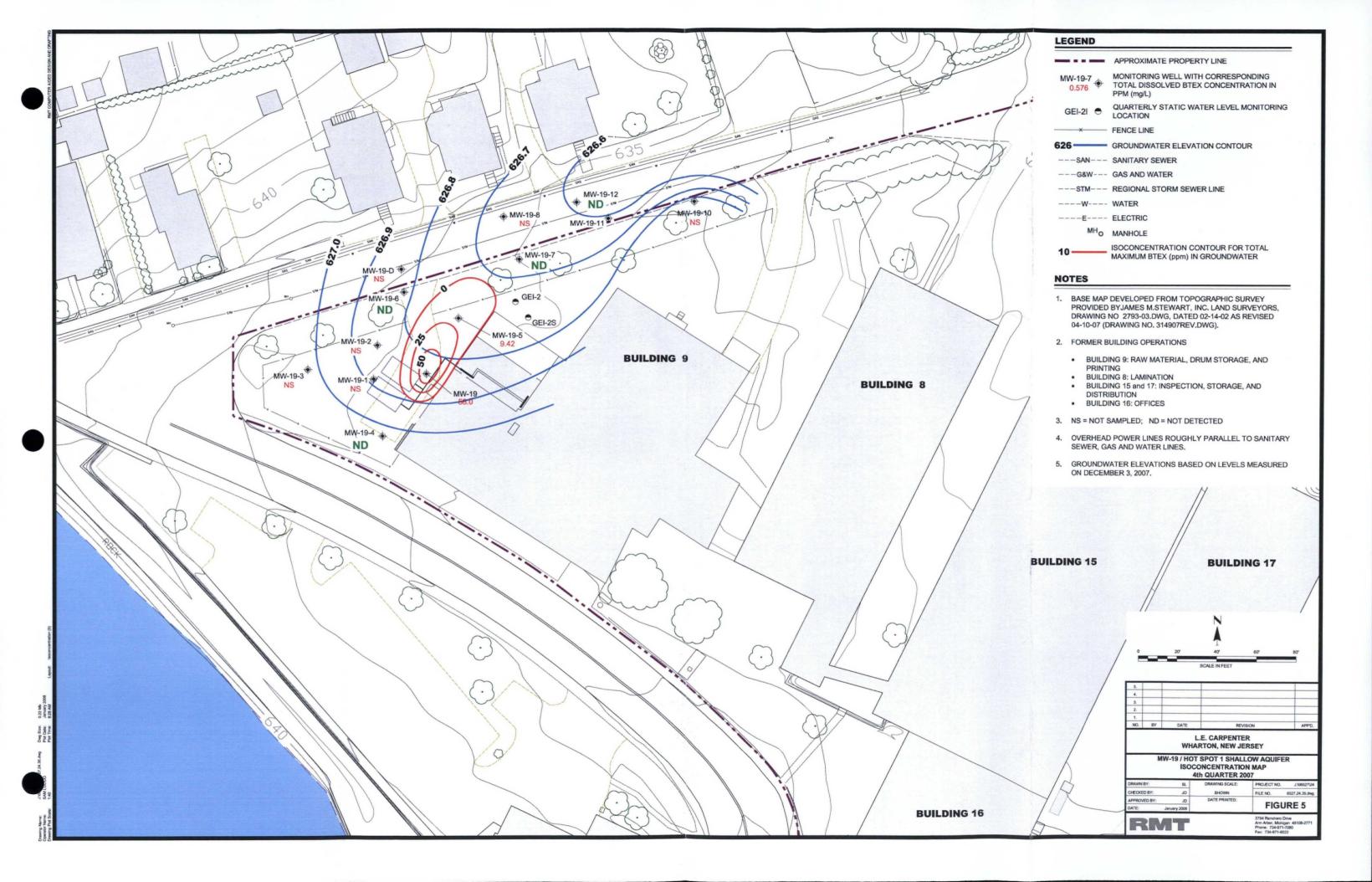
Upper Grab Sample

^{*} Well was not stabalized due to well going dry.

Figures







Appendix A Report Certification

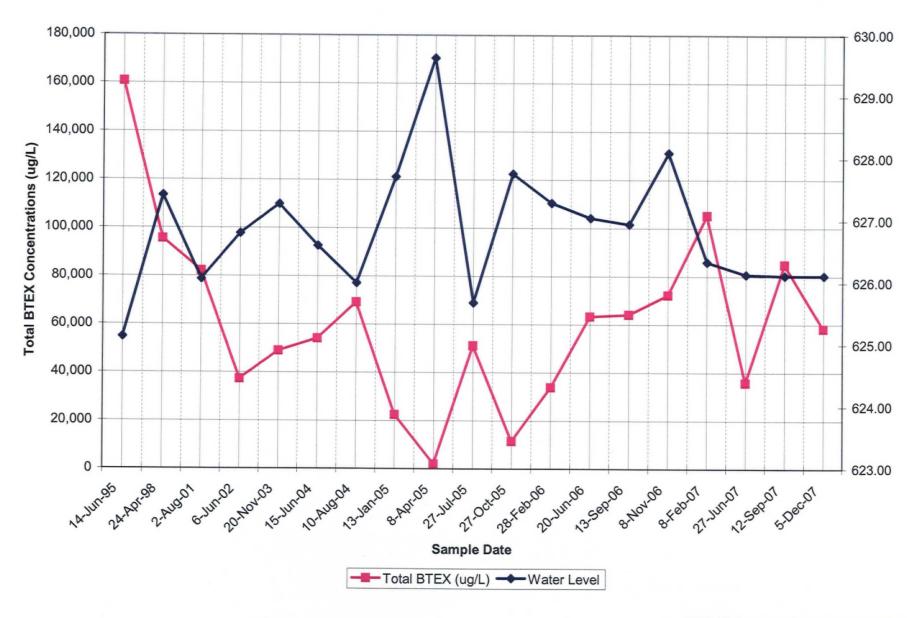
REPORT CERTIFICATION PURSUANT TO N.J.A.C. 7:26E-1.5

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement, which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

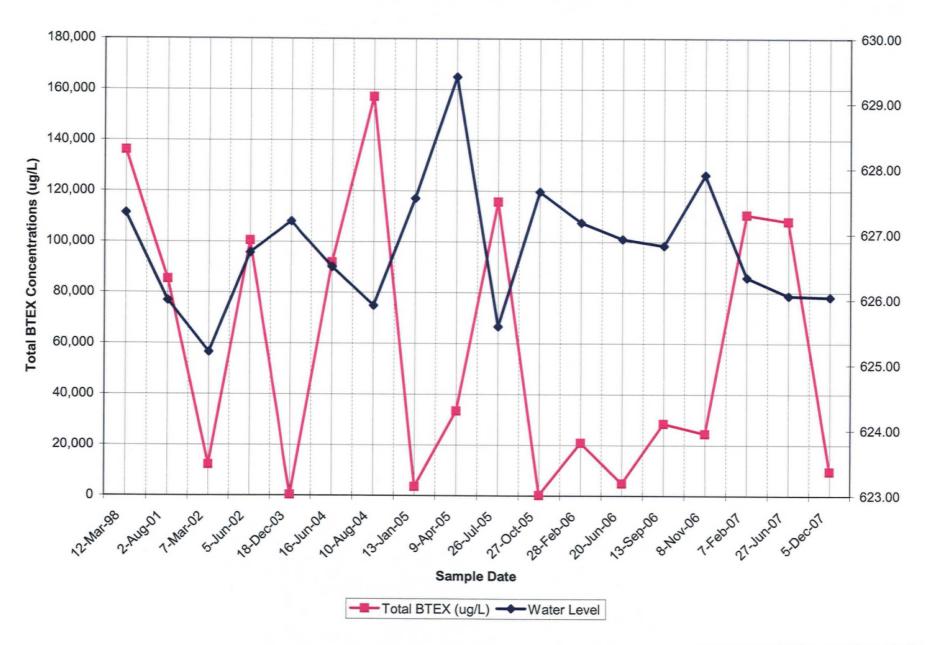
Mr. Cri	stopher R. Anderson
,	PRINTED NAME
Director, Env	vironmental Services
	TITLE
L.E. Ca	rpenter & Company
	COMPANY
Custopen 6	SIGNATURE
1/3//0	8
-	DATE

Appendix B BTEX Concentration Trend Charts

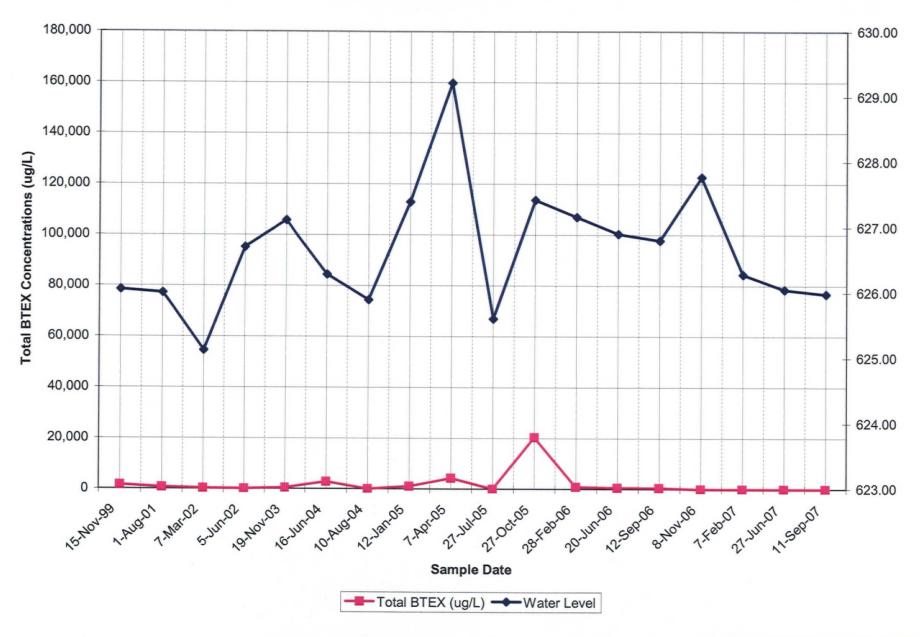
Total BTEX Concentrations vs. Water Levels for MW-19



Total BTEX Concentrations vs. Water Levels for MW-19-5



Total BTEX Concentrations vs. Water Levels for MW-19-7



Appendix C 4th Quarter 2007 Monitoring Well Sampling Data

PAGE	OF	
	 ~-	



PROJECT NAME:	L. E. Carpenter	
PROJECT NUMBER:	6527.24	
PROJECT MANAGER:	N. Clevett	
SITE LOCATION:	Wharton, NJ	
•		
DATES OF FIELDWORK:	12/3/2007 TO 12/7/2007	
·		
•	Collect Static Water Levels, Ground and Surface Water Sample	
PURPOSE OF FIELDWORK:		
PURPOSE OF FIELDWORK:		
PURPOSE OF FIELDWORK: - -		
PURPOSE OF FIELDWORK: -		
PURPOSE OF FIELDWORK: -		
PURPOSE OF FIELDWORK: -	J. Overvoorde & S. Middlebrook	
- - -		
WORK PERFORMED BY:	J. Overvoorde & S. Middlebrook	
- - -		
WORK PERFORMED BY:		

CHECKED BY

DATE

SIGNED



PROJECT NUMBER: 6527.24 AUTHOR: JO/SM TIME LEFT:	PROJECT NAME: L. E. Carpenter	DATE: 12 3 07	TIME ARRIVED:300
	PROJECT NUMBER: 6527.24	AUTHOR: JO/SM	TIME LEFT: 1800

と 一般	WEATHER			
TEMPERATURE: ~30 °F WIND: 10-	-/5 MPH	VISIBIL	.ITY: <u>closed</u>	/
WORK /	SAMPLANG PERE	ORMED .		
				·
· malo to site				- 1
· unpack equip cook	8 C3			
· collect static water	· level ele	vations		
· pean sw sampling		1640		
J	SW-D-5		Dup - 01	
	SW-8-1	1704		

The second second		COMMUNICATION
NAME		
Jim D. NC	RMT	Prit status
		3
Dave C	Poly One LEC	check-in
		7

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PROJECT NAME: L. E. Carpenter	DATE: 124107	TIME ARRIVED: 700
PROJECT NUMBER: 6527.24	AUTHOR: JO/SM	TIME LEFT: 1800

PERATURE:	<u> </u>	WIND: 24					County	cold, u	
		WORK	/SAN	PLING PERFO	RMED	and the second			
·					=	·		SW-R-L	. 10
· finish	ടധ	sampling	<u>:</u>	SW-D-3	734			SW-D-4	85
	-		· ; _ · · ·	SW-D-2	743	w	mspaso	5W-R-2	2 90
· · · · · · · · · · · · · · · · · · ·				SW-D-1	803			SW-R-3	3 9
				5W-R-5	1017	, -		5W-R-4	9
· begin	qw	sampline	A :						
	<u> </u>		אַ	W-19-4	1710				

	 	 •	<u></u>	
				,

Section 1			COMMUNICATION
	NAME		
10	NC	PMT	Status update
	· 		
-			
·			

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DATE



		4
PROJECT NAME: L. E. Carpenter	DATE: 12/4/07	TIME ARRIVED: 7:00
ROJECT NUMBER: 6527.24	AUTHOR: JO/SM	TIME LEFT: 6.00
	WEATHER	
MPERATURE: 25-35°F WIND: 3		VISIBILITY: Cloudy
· ·	(/SAMPLING PERFORMED	<u>-C1648 y</u>
	WESTER ENDINGER - FOR DEWIND	779 46 20 37 50
- Firsh water levels	+-1 - 1 0 ·	- 14 F 10
- Finish sampling Di	•	WITH DENNITER
Sample MW-19-12,	1618 - 10-6	
Janipia no 17-12,	71100 - 117 0	
- Ship samples & at	Fodes	
	/ ea 2 A	
PROBLEMS ENGOUNTERED	e de la companya de	RRECTIVE ACTION TAKEN
		MALE IN LACHOTH AREA
A STATE OF THE STA	COMMENSION	
NAME	COMMUNICATION	
		·
cut griddly rood 12/	4/07	•
	DATE CHECKED BY	DA

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DATE



GENERAL NOTES

PROJECT NAME: L. E. Carpenter	DATE: \2	15/07	TIME ARRIVED: 645
ROJECT NUMBER: 6527.24	AUTHOR:	JO/SM	TIME LEFT: 1915
	<u></u>		· · · · · · · · · · · · · · · · · · ·
	WEATHER		Continue Spirit
EMPERATURE: 28 °F WIN	D: 10-15 MPH	VISIBILIT	Y: doudy, snowing
	Work(/Sampling/Perg		•
		X 510 - 770 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 1	
· continue que sam	pina i Mul-2	75 1625	
	MW-2	- 6	
	Atm-	01 1000	
	MW-2		
	nw-3	0 D 1420	w/ Dup-03
		·	•
· pack · ship sa	mples		
PROBLEMS ENCOUNTE	RED	CORRECTA	E ACTION TAKEN
	. 2		
-			
		-	
	GOMMUNICATION	-	
NAME		4.4	10 30 30
JA NC RMT	Status	odate	
Dave C LEC/ Poly	Status up on prit state	us/schad	
	7, 5,47,	1-440	
		 	
			

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PROJECT NAME: L. E. Carpenter	DATE: 12/5/07	TIME ARRIVED: 6:45
PROJECT NUMBER: 6527.24	AUTHOR: JO/SM	TIME LEFT: 7:15
Company of the second	WEATHER ?	4 (1)
TEMPERATURE: 30 °F WIND: 10-15	5 MPH VISIBILITY	Cloudy/Snow
. WORK/SA	MPLING/PERFORMED	100 Per 100 Pe
Sample MW-19-7, M	W-19-5, MW-19	ms/msD
	· · · · · · · · · · · · · · · · · · ·	
-ship samples at Fed	Cx	
	·	
PROBLEMS ENCOUNTERED.	CORRECTIVE	ACTION TAKEN
		
CON	MUNICATION	and the second s
NAME		
		·
ical Philadel 12/5/0	7	
SIGNED	CHECKED BY	DATE

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DATE



PROJECT NAME: L. E. Carpenter	DATE: 12 6 07	TIME ARRIVED: 645
PROJECT NUMBER: 6527.24	AUTHOR: JO/SM	TIME LEFT: 1645
	WEATHER	
EMPERATURE: 28 °F WIND: 5-	VISIBILIT	Y: mostly sunny
WORK7/5)	AMPLING PERFORMED	Alternative Control
· finish gw sampling:	MW-30I 955	
	MW -305 1143	
	26-01 1230	
· pack + ship samples,	equip	
	<u> </u>	
PROBLEMS ENCOUNTERED	CORRECTIV	EACTION TAKEN
		······································
he	MMUNICATION	
NAME	annone com	erik (natura ili en erika en erika) La de Para (natura en erika)
10 mm 1 1 1 =		
Drenoorde 12/4/07	-	·
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	<u> </u>			
PROJECT NAME:	L. E. Carpenter	DATE: 12	16/07	TIME ARRIVED: 6:45
PROJECT NUMBER:	6527.24	AUTHOR:	JO/SM	TIME LEFT: 4:45
4.3	Part Aller of Control of Control	WEATHER		
TEMPERATURE: 25-	5 °F WIND:	0-10 MPH	VISIBILITY:	clear / Sunny
	work)	SAMPLING PER	FORMED .	en e
Sampled	MW-28I	and m	w-285. and	ringe blank
		· · ·	10	
Packed a	nd shipped . upplies and	samples	at Fed Ex.	
Packed S	upplies and	Shipped	back to of	rice.
Secured S.	Te,			
				
	*			* · · · · · · · · · · · · · · · · · · ·
PROBI	LEMS ENCOUNTERED		CORRECTIVE	ACTIONTIAKEN
	· · · · · · · · · · · · · · · · · · ·			· .
·	·			
NAME		COMMUNICATION	V	
	2 i 5 i 1 i 1			
	· ·			
8 mill	19/1/R-	7		
SIGNED	10/10/0	<u></u>	WED DV	
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WATER LEVEL DATA

PROJECT NAME:	L. E. Carpenter	DATE:	12/3/07 +12/4/07
PROJECT NUMBER:	6527.24	AUTHOR:	JO/SM

WELLLOCATION	TIME ! REFERENCE	DEPTH TO WATER (FEE I)	DEPTH TO *BOTTOM (FEET)	DEPTH TO PRODUCT: (FEET)	WATER ELEVATION
MW-19.	10:31	9.65			
MW-19-1	1035	8.75			
MW-19-2:	1037	9.47			
MW-19-3	1040	9.67		·	
MW419-4 1 3 3 5 1	11041	6 3%			
MW-19-5	1042	8.84			
MW-19-6	1046	8.99	10.0	and the second of	Marie Carlos Car
MW-19-7	1048	8.31		_	
MW-19-8	105	\$.67		grand and a second	
MW-19-9D	1040	8.79			
MW-19-10 -	- NOT MERSE				te pagring.
MW-19-11	1028	7.05			
MW-19-12	1100	7.02			
GEI-2I	Hop .	10.46			
GEI-3I		10.35	78		
MW-156	8:92	18.72			
MW-15I	17737	18.20		<u> </u>	The Second Spring
MW-TBS	17.38	10.15 5:0Q			
MW-18I	956	+			
MW-175	700 812	5.12	11.44		
MW-12R	17.25	7.49			
:M//√-29	1707	3.50			
MW-8	1780	2.56			
MW-25R	nez .	2.20			
MW-21	1028	3.69			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MW-275	1014	5.80			
MW-28S	943	5.71			<u> </u>
<u> </u>					

MW-28(947	5.62			
MW-29S	945	7.35			
MW 30S	937	7.35	1.65	4.0	The Contract of the Contract o
MW-30I	935	2.03	:		
MW-30D	730	Q.79			
SW-D-1	8:03	1.78			
SW-D-2	7.4.3	2:00	11.2		No.
SW-D-3	7:33	1.65			
SW-R-1	17:72	3.44			
SW-R-2	9:09	2.33			
SW-R-3	9112	1.68			100
SW-R-4	9:19	a.35			
SW/IR-5	590	1.50			
SW-R-6	1003	3.27			
SW-D-4	86:57	. 95			A PART OF STREET
DRC-	16:40 + 1	1.74			·
8G4R2	172	2.45			
MW-13S	7:56	4.68			
/MW-13I	7:55	4.55			
MW-13S (R)	Not measu	red			
SW-0-5	16:51	.a.9ø	and the Property		
	September 1				8 1 2 1 1 2 1 E

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 \pm 0.00 T/PVC).

Denovde	12/3/07			. 4.
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EQUIPMENT SUMMARY

PROJECT NAME: L. E. Carpenter	SAMPLER NAME: JO/SM
PROJECT NO.: 6527.24	Gradi Editionia. Goldin
WATER LEVEL MEASUREMENTS COLLECTED WITH:	
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)
PRODUCT LEVEL MEASUREMENTS COLLECTED WITH	t Commence of the second of
NA NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)
DEPTH TO BOTTOM OF WELL MEASUREMENTS COLL	ECTED WITH:
OED MPIO NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)
PURGING METHOD	
NAME AND MODEL OF PUMP OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)
SAMPLING METHOD	
NAME AND MODEL OF PUMP OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)
TN-Line NAME AND MODEL OF FILTERATION DEVICE	FILTER TYPE AND SIZE
TUBING TYPE	LOW-FLOW SAMPLING EVENT
PURGE WATER DISPOSAL METHOD	
☐ GROUND ☐ DRUM ☐ POTW	☐ OTHER
DECONTAMINATION AND FIELD BLANK WATER SOUR	GE
STORE BOUGHT	STORE BOUGHT
POTABLE WATER SOURCE	DI WATER SOURCE
a Salah A	

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PROJECT NAME:	L. E. Carpenter	MODEL: GED MP-20	SAMPLER: JO/SM
PROJECT NO.:	6527.24	SERIAL #: LEC	DATE: 124 07

PH CALIBRATION CHECK

PH.7	(LOT NUMBER);	PH4(10)	TIME
705 / 7.00	fail	110.0 + 40	440
/		1	
1		1	
1		1	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

(LOT NUM	CALIBRATION	HEADING	JEMPERATURE (**CELSIUS)	CORRECTED CONDU	CTIVITY	TIME
	8941	896	5.30	894	(1413)	443
	1					
	1					
	. 1					

D.O. CALIBRATION CHECK

CALIBRATION READING	MINE.
Hach Kits	431

TURBIDITY CALIBRATION CHECK

CALIBRAT (LOT#): NO	ION READING ALOTER MA	TIME
0.210	19 /20	431
85 1 100	1	
1	1	
1	-/	

CAMERATION READING (LOT NUMBER): 109740	TEMPERATURE (*OELSIUS)	CORRECTED ORP	TIME
1 255	6.13	255	446
/			
/			
/			

PROBLEMS ENCOUNTERED:	CORRECTIVE ACTIONS
short sampling day	
3 0	

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PROJECT NAME:	L. E. Carpenter	MODEL: YSI 556 MPS	SAMPLER: EV/JO
PROJECT NO.:	6527.24	SERIAL#: 6RM	DATE: 12/4/07

PH CALIBRATION CHECK

PH7 (LOTNUMBER): 2.70713]	PH4//30	TIME
7.0 / 7.0	4.0 / 4.0	1038
1	1	
/	/	
/	1	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 2702/230	TEMPERATURE	GORREGIED CONDUCTIVITY (Limbol/cm) : IIME a)
1407 1413	11.79	1042
/	·	•••
1		
1		

D.O. CALIBRATION CHECK

CALIBRATION READING	TIME
Hach Xi+	
17 4 C 17	

TURBIDITY CALIBRATION CHECK

OALBRAIL	ON READING	FINE
0.0 10.0	1	1028
11.1 /10	· · · /	1028
1	1	
1	1	

CALIB (LOT NUMBER):	RATIONIREADING	TEMPERATURE (*CELBIUS)	CORRECTED ORP
240	1 240	11.18	1044
	1		
	1		

PR	OBLEMS ENCOU	NTERED	CORRECTIVE/ACTIONS:
		Sampling	
		, ,	

Scot	Middlebrook	12/4/0
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PROJECT NAME:	L. E. Carpenter	MODEL: QED	MP-20	SAMPLER	: JO/SM
PROJECT NO.:	6527.24	SERIAL#:	EC	DATE:	12/5/07

PH CALIBRATION CHECK

PB7 (LOT NUMBER): 9.707131	TEH 47(I) (LOT NUMBER)) 2412673	TIMÉ
7.04 / 7.0	fail / 10 = 4	733
7.07 / 7.0	fail 10	1340
1	/	· · · · · · · · · · · · · · · · · · ·
. 1		

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIBRATION READING RECT NUMBERS 2 70 4230	TEMPERATURE (CI	ORREGIED CONDUCTIVITY:	TIME
1410 / 1413	14.04	1413	737
1410 / 1413	16.82	1413	1342
1			
/			

D.O. CALIBRATION CHECK

CALIBRATION READING (MIREA)	TIME
Hach Kits	737
'n	1340

TURBIDITY CALIBRATION CHECK

CALIBRATIO (LOT#): NA (L	NREADING	TIME
0/0	17/20	610
84 / 100	1	
0/0	18/20	1338
86/100	1	

CALIBRATION READING (LOT NUMBER): 109740	TEMPERATURE (CELSIUS)	CORRECTED ORP	TIME
277 / 239	16.03	233	6,10
230/230	17.10	230	1342
1			
1			

PRO	DELEMS ENCOUNTERED		CORRECTIVE ACTIONS
<u> </u>			
		.	

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PROJECT NAME: L. E. Carpenter	MODEL: 451 556 MPS	SAMPLER: EV/JO
PROJECT NO.: 6527.24	SERIAL#: 6RM	DATE: 12/5/07

PH CALIBRATION CHECK

PBB/	FERENCIAL PROPERTY AND A STATE OF THE STATE	IJME
7.0 / 7.0	4.0 1 4.0	0745
/	1	
/	1	
/	1	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CABIBRATION READING (LOTINGMEER): 27754230	TEMPERATURE:	GORRHCTHE GONDLGTM TY	IME.
1417 / 1413	13.75		0740
1			
,	:		

D.O. CALIBRATION CHECK

CALBRATIC	MITTEAU	NG.	TI.	7 <u>1</u> 2
HACH	Kit			
<u> </u>				
				

TURBIDITY CALIBRATION CHECK

0 / 0		0757
12.2 110	/	
1	7	

CALBR.			TEMPERATU (#CELSIJE)	RE : SORRECI	ED-OR(2	TIME
240	1	240	13,82	appenneger) 21m2-014-6-44mm distribution (distribution)		0752
	1					
	1					-1 ⁻
	1					

PROBLEMS ENGO	WATERED	CORRECTIVE ACTIONS	
			A STATE OF THE STA
			•
			
			•

Scot Mullbland	12/5/07
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PROJECT NAME:	L. E. Carpenter	 MODEL:	GED MP-20	SAMPLER:	JO/SM	
PROJECT NO.:	6527.24	SERIAL#:	LEC	DATE:	12/6/	07

PH CALIBRATION CHECK

	THE GALLETON ON BOIL	
PH7.	(F)(4)(M)	
TLOT NUMBER)	(LOTNUMBER)	TIME
	resiliation (1)	
7617.00	Sail 110 44	745
	7000	
I	I	
1	,	
	I .	
<u> </u>	1	
	<i>I</i>	•

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIBRATION READING LOT NUMBER):		PERATURE C	ORRECTED CONDUCTIVITY (unifice/cm)	TIME
1225 / 1225	1413	16.05	1225	750
1	·			
1				
1				

D.O. CALIBRATION CHECK

GALIBRATION READING	TIME
Hach Kits	628

TURBIDITY CALIBRATION CHECK

CALIBRATIO		* TIME
THE 10 / 6	ora): M	628
84/100	1	
1	1	
1	1	7,

CALIBRATION READING (LOT NUMBER):	TEMPERATURE	CORRECTED ORP	- AMP
328/228	19.51	928	748
1			
1		8	
1			

P	Roblems Encountere	D .		CORREC	TIVE ACTIONS	F 48 40 1
	Short so	umpling.	dan			
	_ <u>:</u>				. ,	

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PROJECT NAME:	L. E. Carpenter	MODEL: 556MPS	SAMPLER: EV/JO
PROJECT NO.:	6527.24	SERIAL#: GRM	DATE: 12/6/07

PH CALIBRATION CHECK

itaje (VI) Neis				A COM				тиме
7	.01	/	7.0		4.0	/ / / / / / / / / / / / / / / / / / /	4.0	0745
		1				1		
		1				1		
		1				1		

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIBRA (LOT NOMBER):		REZADINICA (ST. 1997) 27 (St. 1997)	LEMIFERATIURE FIG	ORRECTED (CONDUCTIVITY (unhos/on)	PME
1417	1.	1413	13,81	1971 kaa seed Hell (1986) ka seed oo doo dhaa dhaa ga sa 1890 1890. 	0751
	1				
	1				
	1				

D.O. CALIBRATION CHECK

CALIBRATIO	M TREAD	ING:	AE .
Hach	Kit		

TURBIDITY CALIBRATION CHECK

(SZAPIETRAJETO)	AREADING	
010	2) 3)	0801
13.21 10	1	
1	1	
	1	

OXIDATION / REDUCTION POTENTIAL CALIBRATION CHECK

(CALIBI (LOFINEMBER): /	ANDONER STEP	ADING :	PEMPRAJURE	CORRECTED ORP	THE
240	1	240	16.53		0756

PROBLEMS ENSOUNTERED		GORRES INVEACTIO	NS:
short sam		A TOWN TO A STATE OF THE STATE	romen kumunkkeereksi servi in in surup belingu in in servi in (1930 in 1939) in servi in servi
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WATER SAMPLE LOG

PROJEC	T NAME:	L. E.	Carpenter				PRE	PARED		140	CHE	CKED
PROJEC	T NUMBE	R: 6527	.24		BY	/: 	JO/SM	DATE: 73	/3/07	BY:		DATE:
SAMPLE	iD: C	RC-	3		WELL DIA	ME	TER: 🔲 2	2"	6" 🔀	OTHER	.	
WELL M	ATERIAL:	PVC	□ss	☐ IR	ON XO	ГНЕ	R					
SAMPLE	TYPE:	□GW	□ww	XS	W 🔲 DI		ÜΓ	EACHATE	Ë	OTHER	}	
PUR	GING	TIME:		DATE			SA	MPLE :	TIME:	164		ATE: 12/3/67
PURGE		PUMP		·			PH: _		SU C	DNDUC.	TIVITY:	umhos/cm
METHOD:		BAILER					ORP:		mv DC):	mg/L	
	O WATER:		TV PVC	-	<u> </u>		TURBID		NT			
DEPTH T	O BOTTON	4	-AL /BAC			<u>.</u>	□ NON	E St	HEHT	/Wc	PERATE	☐ VERY
WELT AO	LUME:		LITER] GALLONS		TEMPER	RATURE: _		10 ×	DTHER:	
VOLUME	REMOVE	D:	LITER	-	GALLONS	3 .	COLOR	:		<u> </u>	QR: _	
COLOR:				ODOF	8:	<u>-</u>		E (0.45 um)	YE	s 🗆	NO	-
TURBIDIT							+	E COLOR: _		FIL	TRATE OD	ÒR:
NONE			MODERAT		VERY	<u> </u>		APLE: M	S/MSD		DUP-	
DISPOSA	L METHOD	GROU	ND L DF	NUM _	OTHER	_	СОММЕ	NTS:				
TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTI	英等性	ORP (mV)			TURBIDITY (NTU)	1995	RATURE	"WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
						,				730.23		INITIAL
,						\vdash			-			· · · · · · · · · · · · · · · · · · ·
٠.				_								
· · · · · · · ·		1				\vdash			 		-i	
		ļ	 	\rightarrow	\sim \wedge	1	7		· · · · · · · · · · · · · · · · · · ·			
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	· · · · · · · · · · · · · · · · · · ·		ļ.					· · · · · ·				
·												
NOTE	: STABILI	ZAŢION TE	STIS CON	PLETE	WHEN 3 S	UCC	CESSIVE F	READINGS A	RE WIT	HIN TH	F FOLLOW	VING LIMITS:
.pH: +/-		COND.: +/-		RP: +/-			+/- 10			OR =</td <td></td> <td>TEMP.: +/- 0.5°C</td>		TEMP.: +/- 0.5°C
вот	LES	PRESERV	ATIVE COD	ES	· · · · · · · · · · · · · · · · · · ·					•		
FILL	ED	A- NO	NE	B - HN	103	Ċ-	H2SO4	D - Na	ОН	E-	HCL	F - <u>Na2S2O3</u>
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTERE	D	NUMBER	SIZE	TYP	PR	ESERVAT	
2	40 mL	VOA	E		□ Y ☑	N	2	1 L	AMBE	R	F	□Y ☑N
-2	40 mL	. VOA	Α			N	-2	500mL	PLAST	ie	A	D Y D N
-1	100 ml	PLASTIC				N		11	PLAST	1C		DY DW
1	125 mL	PLASTIC	A			₩	4	250 mL	PLAST	16		
SHIPPING I	METHOD:	Fed	Ex	DATE	SHIPPED:		12/4/	M	AIR	BILL NU	IMBER:	
COC NUMB	ER:				TURE:	コ						AN
		<u> 4</u> N	`	CIGIAL	TONE.			MOONEL	DAI	E SIGN	ED:	12/4/07

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PAGE	O	·	<u> </u>

PROJECT NAME: L. E. Carpenter		PREP	ARED		ÇH	ECKED			
PROJECT NUMBER: 6527.24	BY:	JO/SM	DATE: /2/	3/07 BY	:	DATE:			
SAMPLE ID: PO-5 WELL DIAMETER: 2" 4" 6" NOTHER									
WELL MATERIAL: PVC SS IRON A OTHER									
SAMPLE TYPE: GW WW ZYSW D	DI	LE	ACHATE	□от	HER				
PURGING TIME: DATE:		SAN	IPLE :	TIME: //	:48	DATE:/2/3/07			
PURGE PUMP PUI: SU CONDUCTIVITY: umhos/cn									
METHOD: BAILER									
DEPTH TO WATER:									
DEPTH TO BOTTOM TO PVC		NONE	☐ sri	снт Д	MODERATE				
WELL VOLUME: LITERS GALLO	NS	TEMPERA	TURE:	1.0	°C OTHER				
VOLUME REMOVED: LITERS GALLO	NS	COLOR:			QDOR:				
COLOR: ODOR:		FILTRÁTE	(0.45 um)	YES	□ MO	·			
TURBIDITY:		FILTRATE	COLOR:		FILTRATE	DOR:			
NONE SLIGHT MODERATE	RY	QC SAMP	LE: MS/	MSD	DUP-	O Trans			
DISPOSAL METHOD GROUND DRUM OTHER	₹	COMMEN	TS:			:			
TIME PH CONDUCTIVITY ORP		Ď.O. T	URBIDITY	TEMPERA	CIRE WATE	15 All rate 1 . Bellieft Delbaration on the rest of			
(ML/MiN) (SU) (umhos/cm) (mV)		mg/L)	发现 经数据	(°C)	1 react	化合物 医多氏性 化双氯磺胺 化二甲基乙基酚二甲基			
		, , , ,		and the second second	A. C.	INITIAL			
	/	1							
	//	U +			<u> </u>				
		/	•						
					•				
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3	SUCC	ESSIVE RE	ADINGS AF	E WITHIN	THE FOLLO	MANIC LIMITE.			
pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10	D.O.:		TURB: +/- (= 10</td <td>TEMP: +/- 0.5°C</td>	TEMP: +/- 0.5°C			
BOTTLES PRESERVATIVE CODES						121411 +/- 0.0 0			
FILLED A- NONE B- HNO3	C	H2SO4	D 17-0		=	_			
NUMBER SIZE TYPE PRESERVATIVE FILTE		NUMBER	D - NaO		E- HCL	F - Na2S2O3			
		, -	SIZE	TYPE	PRESERVA				
	J N	74		AMBER	F	□ Y ☑ N			
	<u>ज</u> ि	-2		PLASTIC	A -	□ Y ✓ N			
4 400 1 71 40710	<u> </u>			PLASTIC	A	DY VN			
1 125 mL PLASTIC A V	<u>-</u> -u	-4	250 mL I	PLASTIC	C	□ Y ☑ N			
SHIPPING METHOD: FAE DATE SHIPPET	D:	12/4/0	7	AIRBIL	L NUMBER:	NA			
DC NUMBER: NA SIGNATURE: DATE SIGNED: 121112									

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PROJEC	T NAME:	L. E.	Carpenter		**************************************		PRE	PARED		· · · · · · · · · · · · · · · · · · ·	HECKED
PROJEC	T NUMBE	ER: 6527	.24		ВҮ	' :	JO/SM	DATE	13/07BY	/ :	DATE:
SAMPLEID: SUI-R-1 WELL DIAMETER: 2" 4" 6" MOTHER											
WELL M	ATERIAL	1 100	☐ ss	☐ IROI	N KTOT	HER					
SAMPLE	TYPE:	☐ GW	_ ww	🗷 sw	DI			EACHATE	O1	THER	
PUF	RGING	TIME:		DATE:		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	SA	MPLE	TIME: /	7:04	DATE:12/3/07
PURGE PUMP PH: SU CONDUCTIVITY: umhos/											
ORP:mv DO:mg/L											
		$\overline{}$	TA BAC				TURBID		- 77	4	
	O BOTTO	M	_ H JPVc			- -	NON		_IGHT	MODERAT	
WELL VO			LITER		SALLONS	- 		RATURE:		OTHE	R:
	REMOVE):	NUTERS		SALLONS		COLOR			ODOR:	\
COLOR:			 `	ODOR:		· -		E (0.45 um)	☐ YES	ΝO	
TURBIDI		10117	1			-		E COLOR: _		FILTRATE	ODOR:
NONE		LIGHT [MODERAT		VERY	_			S/MSD	DUP-	
DISPOSA	IL METHOL	O GROL	IND DR	им 🔲 с	THER	- 0	COMME	NTS:			
TIME	PURGE RATE (ML(MIN)	PH (S⊍)	CONDUCTA (umhos/ci		ORP (mV)	D:	O. g/L)	TURBIDITY (NTU)	TEMPERA	LEVI	EL PURGE VOLUME
											INITIAL
									1 :		
							-, 7	1			
			 		$\overline{}$	<u> </u>	1/1	4		-	
		<u> </u>	 				14	<u> </u>	ļ. · · · · ·		
		 	 		· · · · · · · ·						
	· ·	<u> </u>									
											·
				3							
NOT	E: STABILI	ZATION TE	STIS COM	PI ÉTE W	HEN 2 CI	ICCE	PONE E	EADINGS	DE 1475		OWING LIMITS:
pH: +/-		COND.: +/-						TURB: +/-			TEMP.: +/- 0.5°C
	TLES	PRESERV	ATIVE CODI	S				·			
FILI	_ED	A- NO	NË I	B - HNO3	3 () - H2	2504	D - Na	ОН	E- HCL	F - <u>Na2S2O3</u>
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTERE		UMBER		TYPE	PRESERVA	
2	40 mL	VOA	E] Y 💟 I		2	1 L	AMBER	F	□Y VN
2	40 mL	VOA	A) Y [2] 1		_2	500mL	PLASTIC	A	→ D Y ☑ N
_1	-100 mL	PLASTIC				-		- 1 L	PLASTIC		
1	125 mi	PLASTIC	A		· []	-		250 mL	PLASTIC	A	
								200 mc	LAONO		<u> </u>
SHIPPING	METHOD:	Fed	Ex_	DATE SH	IIPPED:		12/4	107	AIRBIL	L NUMBER:	NA
OC NUME	BER:	N	9	SIGNATL	JRE:	90		porde	DATE S	SIGNED:	12/4/07

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PROJECT NAM	E: L.E.	Carpenter		PRE	PARED		CHE	CKED	
PROJECT NUM	BER: 6527	7.24	BY:	JO/SM	DATE: (8	19/07 BY	•	DATE:	
SAMPLE ID:	5W-0-3		WELL DIAME	TER: 2	"] 6" 🗷 ОТ	HER	 	
WELL MATERIA	\L: □ PVC	ss 🗆	IRON KOTHE	R					
SAMPLE TYPE:	☐ GW	□ww 🗷	SW 🗌 DI		EACHATE	го	HER	l.	
PURGING TIME: DATE: SAMPLE TIME: 7:34 DATE: 12/4/07									
PURGE PUMP PH: SU CONDUCTIVITY: umhos/cm									
ORP:mg/L									
DEPTH TO WATE		PVC PVC	· .	TURBIDI		NTV	1/4	_	
DEPTH TO BOTT	OM	T/ PVC		☐ NONE	⊑ ∐ St	IGHT L	MODERATE	☐ VERY	
WELL VOLUME:		LITERS	GALLONS	TEMPER	ATURE: _	$\overline{}$	°C OTHER:		
VOLUME REMON	/ED:	LITER	GALLONS	COLOR:			ODOR: _		
COLOR:	*********	ODO	OR:	FILTRATE	E (0.45 um)	YES	NO		
TURBIDITY:	·		$\overline{}$	FILTRATE	COLOR:		FILTRANE OD	OOR:	
NONE	SLIGHT [MODERATE	☐ VERY	QC SAMI	PLE: M	S/MSD	DUP-	****	
DISPOSAL METH	OD GRO	UND DRUM	OTHER	COMMEN	NTS:				
TIME PURG RATI (ML/M	:	CONDUCTIVITY (umhos/cm)	ORP (mV)	域等源图形	TURBIDITY (NTU)	TEMPERAT	TURE WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALOR L)	
								INITIAL	
								<u> </u>	
			\ \/	Λ				 	
									
1		- 			-\				
		+		-				, , , , , , , , , , , , , , , , , , ,	
					<u> </u>				
NOTE: STAB	ILIZATION TE	EST IS COMPLET	E WHEN 3 SUC	CESSIVE R	FADINGS A	DE WITLIN	THE FOLLOW	INC LINE.	
pH: +/- 0.1	COND.: +/-			+/- 10	TURB: +/-	*		TEMP.: +/- 0,5°C	
BOTTLES	PRESERV	ATIVE CODES		7.1.					
FILLED	A - NC		IÑO3 C-	H2SO4	D - Na	ОН	E - HCL	F - Na2S2O3	
NUMBER SIZE	-	PRESERVATIVE		NUMBER		TYPE	PRESERVATI		
2 40 mL	VOA	E	□Y ☑N	2	1 L	AMBER	F		
2 40 mt	- VOA		DY ØN	- 9	500mL	PLASTIC			
100 m			N S A						
1 125 m				1		PLASTIC	A	W V V	
			LY W		250 mL	PLASTIC	<u> </u>		
SHIPPING METHO	D: Fed	Ex DAT	E SHIPPED:	12 4	07	AIRBILL	NUMBER:	MA	
OC NUMBER:	NA	land.	NATURE:	P) MAN		DATE S	IGNED:	1211/1-7	

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DDO IEO	T NIABAT:	· · ·	Comente			764.754.874 164.754.874	and a second second		ate favilles	Lipan Gardon 2002	e on a grant in translation and
	T NAME:		Carpenter	·			SECTION AND ADDRESS.	PARED		and 15000000 10000000000000000000000000000	IECKED
PROJEC	T NUMBE	R: 6527	.24			BY:	JO/SM	DATE:	44/07 BY	: 	DATE:
	^{ID:} SW				ă			"] 6" [OT	HER	
	ATERIAL:		ss			OTHE				· · · · · · · · · · · · · · · · · · ·	
SAMPLE	TYPE:	☐ GW	. □ ww	⊠ S\	<u>М</u>	DI		EACHATE	<u></u>	HER	
\ PUR	GING	TIME:		DATE	<u>:</u>		SA	MPLE	TIME: 7	1.43	DATE: 12/4/07
PURCE		PUMP					PN:_		SU CON	DUCTIVITY:	umhos/c
METHOD:		BAILER	* <u>*</u>			-	ORP:		mv DO:	mg	/L
	O WATER	$\overline{}$	T PVC				TURBIDI			A	
	O BOTTON	\sim	T PVC				NONE		IGHT	MODERATE	
VELL VO			LITER		GALLO		TEMPER		~	other	₹:
	REMOVE	J	_ UTER		GALLO	NS	COLOR:	_		ODOR:	
COLOR:	<u> </u>		`	ODOR	<u> </u>			E (0.45 um)	YES	NO	
TURBIDIT		JGHT [MODERAT	<u>_</u>	VER	· · ·	FILTRATE	COLOR:	20100	FILTRATE	DOR:
		GROU		EUM.	OTHER		COMME		S/MSD	DUP-	
	PURGE				- CITILA		COMINE	110,			
TIME	RATE (ML/MIN)	PH (SU)	CONDUCTI (umhos/c		ORP (mV)		D.O. mg/L)	TURBIDITY (NTU)	TEMPERAT	TURE WATE LEVE (FEE	PURGE VOLUM (GAL.OR L)
		ļ									İNITIAL
		ļ							<u>.</u>		<u> </u>
· · · · · · · · · · · · · · · · · · ·				-	<u>Λ / </u>						
<u>:</u> .		,			′₩	Α_		<u> </u>			
		ļ	ļ			-	\rightarrow				
	·										
NOTE	E: STABII I	ZATION TE	STIS COM	PIFTE	WHEN ?	Glica	EGGIVE D	EADINGS 5	DE WITH		WING LIMITS:
pH: +/-		COND.: +/-		RP: +/-			+/- 10	TURB: +/-		= 10</td <td>DWING LIMITS: TEMP.: +/- 0.5°C</td>	DWING LIMITS: TEMP.: +/- 0.5°C
ВОТ	TLES .	PRESERV	ATIVE COD						OK		1 LIVIF T/- U.5 C
FILL	100	A - NO		ES B-HN	03	C -	H2SO4	D - Na	OH.	E UC'	F 11 222
UMBER	SIZE	TYPE	PRESERV		FILTER		NUMBER	SIZE	TYPE	E - HCL PRESERVA	F - <u>Na2S2O3</u>
14	40 mL	VOA	E		□ Y [74	1 L	AMBER	FRESERVA	
2	40 mL	VOA				- N	2	500mL	PLASTIC	· ,	□Y ☑N
1	100 mL	PLASTIC.				N.	1				
	125 mL	PLASTIC							PLASTIC	A	
	120 IIIL					14		250 mL	PLASTIC	<u> </u>	T Y D N
IIPPING I	METHOD:	_Fed	Ex	DATE S	SHIPPED	:	1214	107	AIRBILL	NUMBER:	ΛΛΔ
OC NUME	ER	4/1		SIĞNA	TI IDE:		-	roorde	DATE	IGNED:	12/4/07

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PROJECT NAME: L. E. Carpenter	Supply Algebra	PREP	ARED		CHE	CKED				
PROJECT NUMBER: 6527.24	BY:	JO/SM	DATE:12/	4/07 BY:		DATE:				
SAMPLE ID: SW-D-/ WELL DIAMETER: 2" 4" 6" OTHER										
	OTHER				<u> </u>					
SAMPLE TYPE: GW WW SW [_ DI	LE	ACHATE	□от	HER					
RURGING TIME: DATE:		SAN	IPLE	TIME: 8	03	DATE: 12/4/07				
PURGE PUMP PH: SU CONDUCTIVITY: umhos/cm										
METHOD:										
DEPTH TO WATER: PVC TURBIDITY: NTU 1										
DEPTH TO BOTTOMT/ PVC		NONE	□ s∟ì	GNZ [MODERATE	☐ VERY				
WELL VOLUME:	LONS T	EMPERA	TURE:		COTHER:	· · · · · · · · · · · · · · · · · · ·				
VOLUME REMOVED: LITERS GAL	LONS C	COLOR:			ODOR: _					
COLOR: ODOR	<u>F</u> I	ILTRATE	(0.45 um)	YES	□ NO					
TURBIDITY:		LTRATE			FILTRATE OF)ÒR				
		C SAMP	LE: MS	/MSD	DUP-					
DISPOSAL METHOD GROUND DRUM OTH	ER C	OMMEN	TS:							
TIME PURGE PH CONDUCTIVITY ORI RATE (ML/MIN) (SU) (umhos/cm) (mV			URBIDITY (NTU)	TEMPERAT	URE WATER LEVEL (FEET)	PURGEVOLUME				
						INITIAL				
	7									
			_							
										
					<u> </u>	+				
NOTE: STABILIZATION TEST IS COMPLETE WHEI	N 3 SUCCE	BOILE DE	EADINGS 51	DÉ MARTINA	THE PA. : 5					
pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10	D.O.: +/-		TURB: +/-		= 10</td <td>VING LIMITS: TEMP.: +/- 0.5°C</td>	VING LIMITS: TEMP.: +/- 0.5°C				
BOTTLES PRESERVATIVE CODES					· · · · · · · · · · · · · · · · · · ·					
FILLED A - NONE B - HNO3	C - H2	2804	D - NaC	ЭН	E - HCL	F - Na2S2O3				
NUMBER SIZE TYPE PRESERVATIVE FIL	TERED N	UMBER	SIZE	TYPE	PRESERVAT					
2 40 mL VOA E Y	IJΝ	2	1 L	AMBER	F.	□Y √N				
B 49 ml VOA A TY	₩	4	369mL	PLASTIC		N & Y				
1 100 mt PLASTIC Y	- N	4	- 1 -	PLASTIC	A	N V				
1 125 mL PLASTIC A	☑ N	T	250 mL	PLASTIC		N LY ALL				
SHIPPING METHOD: Fed Ex DATE SHIPP	PED:	12/4		AIRBIL	NUMBER:	Λι Δ				
COC NUMBER: NA SIGNATURE		0.0	- > - 4			11 1				

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PROJECT NAME:	L. E. C	Carpenter			PR	EPARED		ું CH	HECKED .	
PROJECT NUMBE	R: 6527.2	24		BY:	JO/S	M DATE: /3	14/07 BY:		DATE:	
SAMPLE ID: SW-A-5 WELL DIAMETER: 2" 4" 6" OTHER										
WELL MATERIAL:	PVC	SS	☐ IRO	N 🗷 OTH	IER				<u> </u>	
SAMPLE TYPE: GW WW KSW DI LEACHATE OTHER										
RURGING	TIME:		DATE:		\$ \$	AMPLE	TIME:/0		DATE: 12/4/07	
PURGE METHOD:] PUMP] BAILER	111	1	·	PH: \ ORP:		NV DO:	UCTIVITY: mg	umhos/cm g/L	
DEPTH TO WATER: TI/ PVQ TURBIDITY: NTU A A										
DEPTH TO BOTTOM T/ PVC NONE SLIGHT WODERATE VER								E VERY		
WELL VOLUME:		LITERS		GALLONS	TEMP	RATURE:		°C OTHE	R:	
VOLUME REMOVE	D:	LITTERS		GALLONS	COLO	R:		QDOR:		
COLOR:	 		PDOR:		_ FILTR/	ATE (0.45 um)	YES	□/NO		
TURBIDITY:					_	TE COLOR:		FILTRATE	ODOR:	
□ NONE □ SI	_IGHT □	MODERAT	E	VERY	QC S/	MPLE: MS	S/MSD	DUP-	J	
DISPOSAL METHO	GROU	ND DR	UM 🗌	OTHER	COM	MENTS:				
TIME PURGE		CONDUCTION	福 身 物語	ORP	D.O.	TURBIDITY	TEMPERAT	i i Evi	EL PURGE VOLUME	
(ML/MIN)	(SU)	(umhos/cr	(1)	(mV)	(mg/L)	(NTU)	(°C)	(FEE	T) (GAL OR L) INITIAL	
	ļ								INITIAL	
	—				-					
-										
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	1	<u> </u>	ļ				<u></u>		<u> </u>	
NOTE: STABIL	IZATION TE		PLETE ! RP: +/-		CCESSIV			THE FOLL	OWING LIMITS:	
BOTTLES	PRESERV	ATIVE COD	FS		-					
FILLED	A - NO		B - HNO	03	:- H2SO4	D-Na	ОН	E - HCL	F - Na2S2O3	
NUMBER SIZE	TYPE	PRESERV	— T	FILTERED			TYPE	PRESERV		
2 40 mL	VOA	E		□Y ☑I			AMBER	F		
2 40 mL	VOA				<u> </u>	- 500ml	PLASTIC	<u> </u>		
1- 100 mL										
1 125 ml	PLASTIC						PLASTIC	A		
1	PLASTIC				V /	250 mL	PLASTIC	C	N N	
SHIPPING METHOD	_F	4Ex	DATE	SHIPPED:		2/4/07	AIRBIL	L NUMBER:	AVA	
CÓC NUMBER:	VI	A	SIGNA	TURE:	40,	remoords	DATE	SIGNED:	12/4/07	

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PROJEC	T NAME:	L E.	Carpenter	And,	PF	EPARE	D'	, ch	ECKED
PROJEC	T NUMBE	R: 6527.	24	B'	Y: JO/5	M DATE	12/4/07 B	/ :	DATE:
SAMPLE	D: 5	ジ -の	. 4.	WELL DIA	METER:	2" 🔲 4	. De. XO.	THER	, , in an de la conte
WELL M	ATERIAL:			IRON 🛛 O	THER	,			
SAMPLE	TYPE:	☐ GW	□ww [K]SW □ D		LEACHA	TE O	THER	
PUR	GING	TIME:		DATE:		AMPLE	TIME:	:57	DATE: 12/4
PURGE		PUMP			PH:			DUCTIVITY:	umhos/cm
METHOD:		BAILER	$\Lambda \Lambda \Lambda$		ORP:		_ mv DÓ:	mg/	'
DEPTH TO WATER: TURBIDITY: NTU									
DEPTH TO BOTTOM TY PVC NONE SLIGHT TO MODERATE VERY									
WELL VO	LUME:		LITERS	GALLONS	S TEMP	RATURE		°C OTHER	<u> </u>
VOLUME	REMOVED	D:	LITERS	GALLONS		R:		OBQR:	
COLOR:		· · · · · · · · · · · · · · · · · · ·	。	DOR:	FILTR	ATE (0.45	um) 🗌 YES	□ NÔ	
TURBIDIT	ΓΥ:					TE COLO	₹:	FILTRATE C	DDOR:
NONE SLIGHT MODERATE VERY QC SAMPLE: MS/MSD DUP-									
DISPOSAL METHOD GROUND DRUM OTHER COMMENTS:									
TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	Y ORP (mV)	D.O. (mg/L)	TURBID (NTU		LEVE	PURGE VOLUME) (GAL OR L)
	<u> </u>				 				INITIAL
					1 1				
				+ / \	//				
				+	1/-	1			
				1,0		1			
	·								
	,							: -	
						<u> </u>			
								7	
NOTE	STARÍLI	ZATION TE	STIS COMP	ETE WHEN 3 S	LICCESSS	DEADIN	00 ADE 1400		
pH: +/-		COND.: +/-).O.: +/- 10			N THE FOLLO	TEMP.: +/- 0.5°C
	TLES	PRESERV	ATIVE CODES		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
FILL	ED	A- NO	NE B-	HNO3	C - H2SO4	D-	NaOH	E - HCL	F - <u>Na2S2O3</u>
NUMBER	SIZE	TYPE	PRESERVAT	IVE FILTERE	D NUMB	ER SIZ	E TYPE	PRESERVA	
2	40 mL	VOA	E		N 2	11	AMBER	F	□Y ☑N
2	40 mL	VOA		TY 7	N 2	500	nL PLASTIC		TY 7N
<u>U</u>	100 mL	PLASTIC		- D 7 7	-	11		A	
1	125 mL	-PLASTIC				250		c	Y GW
	METUOD		150						
SHIPPING				ATE SHIPPED:		1107		L NUMBER:	A
OC NUME	I D	$A \setminus n$	1 0	GNATURE	T			gen er har nyfillangstarae	

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PROJECT	NAME:	L. E.	Carpenter			PRE	PARED		Ç CI	HECKED
PROJECT	NUMBE	R: 6527	24		BY:	JO/SN	DATE:/2	/4 BY	' :	DATE:
SAMPLE	D: 54)- R- Q		WELL	DIAME	TER:	2"] 6" [X]O1	THER	
WELL MA	3 163	and the second of the Second of the	ss	☐IRON 🔯	OTHE	R		·	······································	
SAMPLÉ T	YPE:	☐ GW	□ww	⊠sw □	DI DI		LEACHATE	O1	HER	
PURG	ING .	TIME:		DATE:		S/	AMPLE	TIME: 9	1:08	DATE: 18/4/07
PURGE	Г	PUMP				PH:			DUCTIVITY:	umhos/cm
METHOD.	_ [BAILER			-	ORP:		nv DO:	mg	g/L
DEPTH TO	$\overline{}$	$\overline{}$	_ T/ /PVC		·.	TURBIC		NTU_	0	Λ
DEPTH TO		<u>_</u> _/	_ 7/ PVC			□ NON	IE . SL	IGHT	MODERAT	E VERY
WELL VOLU		7.1	LITER			TEMPE	RATURE:		.c Diffe	R:
VOLUME R	EMOVE):	LITERS		ONS	COLOR			ODOR:	\
COLOR:			\	ODOR:			TE (0.45 um)	YES	□ NO	
TURBIDITY		IOUT [MODERAT		514		E COLOR:		FILTRATE	ODOR:
DISPOSAL			MODERAT	UM OTHER	RY		MPLE: MS	S/MSD	DUP-	
		J GROC	אַט בויי טאי	OW COTHE	٠	СОММЕ	ENIS:			•
THVIE 3	PURGE RATE	PН	CONDUCTA			D.O.	TURBIDITY	TEMPERA	TURE WAT	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(ML/MIN)	(S⊍)	(umhos/cr	n) (mV)	F 18	mg/L)	(NTU)	(°C)	(FEE	the control of the co
										INITIAL
						1				
-						VE				
										·
									·	
										· ·
NOTE	CTADII I	ZATION TE	STIC CON							
pH: +/- 0.		COND.: +/-		RP: +/- 10		+/- 10	READINGS A TURB: +/-		NTHE FOLL = 10</td <td>OWING LIMITS: TEMP.: +/- 0.5°C</td>	OWING LIMITS: TEMP.: +/- 0.5°C
BOTTL	ES	PRESERV	ATIVE CODE		· ·		·			
FILLE		A- NO			. c-	H2SO4	D - Na	ЭН	E - HCL	F . Ne20200
NUMBER	SIZE	TYPE	PRESERVA			NUMBER	T	TYPE	PRESERV	F - Na2S2O3 ATIVE FILTERED
2	40 mL	VOA	E		✓ N	2	1 L	AMBER	F	
2	40 mi	- VOA			_ N	- R	500mi	PDASTIC	, 	
1	100 mL	PLASTIC			Z Z			PLASTIC		□ ¥ ⑦ N
1	1 25 ml.	PLASTIC	A		- N	3"	230 mL	PLASTIC		
- Lunnus es	TUCS									
SHIPPING ME		<u> हिंदा</u>		DATE SHIPPE		12/1	1/07	AIRBIL	L NUMBER:	NA_
COC NUMBE	R:	NA	204 Pa	SIGNATURE:	d	DINA	and.	DATE	SIGNED	

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PROJECT NAME:	L. Ē.	Carpenter			PRE	PARED		†	ECKED
PROJECT NUMB	ER: 6527	.24		BY:	JO/SM	DATE: A	2/4 BY	' .	DATE:
SAMPLE ID: 5	W-R-	3	WELL	DIAME	ΓER: 2	"] e" [X [O]	THER	
WELL MATERIAL		ss	☐ IRON 🔀	OTHE	R				
SAMPLE TYPE:	□GW	□ww	Ż(sw □] DI		EACHATE	01	HER	
PURGING	TIME:		DATE:		SÁ	MPLE /	TIME: 9	:12	DATE: 12/4
PURGE [PUMP			-	PH; _			DUCTIVITY:	umhos/cm
METHOD:	BAILER	Δ	<u> </u>	-	ORP:		mv DO:	mg/	լ
DEPTH TO WATER		T/ PVC/			TURBIDI	TY	NTU	1	1
DEPTH TO BOTTO	м	_ T/ PX/C			☐ NONE	<u> </u>	иент 🗆	MØDERATE	VERY
WELL VOLUME:		LITERS			TEMPER	ATURE: _		C OTHER	4
VOLUME REMOVE	D:	_ LITERS	GALLO	ONS	COLOR;			QDOR:	
COLOR:		`	ODOR:			E (0.45 um)	YES	□ NO	
TURBIDITY:	IOUT F	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				COLOR:		FILTRATE	DDOR:
DISPOSAL METHO	LIGHT [MODERATE		RY	 	PLE: M	S/MSD	DUP-	
		טאט 🗀 טאנ	M 🗌 OTHE	-	COMME	VTS:	-		
TIME PURGE RATE (ML/MIN)		CONDUCTIVI			D.O. mg/L)	TURBIDITY (NTU)	TEMPERA	LEVE	PURGE VOLUME
						·			INITIAL
					1				
				V	/ /	-	,		
				1	/4				
	,			1	_				+
NOTE: STABILI	ZATION TE	STIS COMP	LETE WHEN	3 51100	EGGIVE P	EADINGS (NDE WATER	LTIE FOLLS	WING LIMITS:
	COND.: +/-		P: +/- 10		+/- 10	TURB: +/-		= 10.</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES	PRESERV	ATIVE CODE	<u> </u>						
FILLED	A- NO	NE B	- HNO3	C-	H2SO4	D- Na	ОН	E- HCL	F - <u>Na2S2O3</u>
NUMBER SIZE	TYPE	PRESERVA	TIVE FILTE	RED	NUMBER	SIZE	TYPE	PRESERVA	
2 40 mL	VOA	E	□ Y	IJN	2	1 L	AMBER	F	□Y ☑N
2 40 ml	VOA	A		<mark>∠ N</mark>	2	500ml	PLASTIC	A	FYDN
1 100 mL	PLASTIC			Z N	1	_11	PLASTIC	A -	
(1 125 m)	PLASTIC	A		₩-	1	250 ml	PLASTIC	C	N S A
HIPPING METHOD:	Fed	Ex	ATE SHIPPE	n	12/4/0				
	1 0	~ ~ ! ·	" TIE GRIEFE	₩.		\~J	IAIRRIL	L NUMBER:	A / A

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PROJECT NAME: L. E. Carpenter		PREP	ARED		CHE	OKED
PROJECT NUMBER: 6527.24	BY:	JO/SM	DATE:/3	14/02 BY		DATE:
SAMPLE ID: SW-K-Y	WELL DIAMET	ER: 2"	4"	6" X OT	HER	
WELL MATERIAL: PVC SS	☐IRON 🛣 OTHE	R		· · · · ·		
SAMPLE TYPE: GW WW	⊠sw □ DI	LE	ACHATE	□от	HER	
PURGING TIME:	DATE:	SAN	IPLE :	TIME: 9	:19 0	ATE: 12/4/0-
PURGE DUMP		РЩ:	s	U CONE	DUCTIVITY:	umhos/cm
METHOD: BAILER		ORP:	m	IV DO:	mg/L	
DEPTH TO WATER: T/ PVC		TURBIDIT	Y:	- ∕\ T¥	Λ	· .
DEPTH TO BOTTOM		NONE	☐ SLÌ	GHT.	MODERATE	☐ VERY
WELL VOLUME: LITERS	GALLONS	TEMPERA	TURE:		C OTHER:	
VOLUME REMOVED: LITERS	GALLONS	COLOR:			ODOR:	
COLOR:	ODOR:	FILTRATE	(0.45 um)	YES,	□ NO	
TURBIDITY:		FILTRATE (COLOR:		FILTRATE ODG	OR:
NONE SLIGHT MODERATE		QC SAMP		/MSD	DUP-	
DISPOSAL METHOD GROUND DRU	M OTHER	COMMEN.	TS:			
TIME RATE PH CONDUCTIVI (ML/MIN) (SU) (umhos/cm		D.O. TI	(NTU)	TEMPERAT	LEVEL	CUMULATIVE PURGE VOLUME (GAL-OR L) INITIAL
BOTTLES PRESERVATIVE CODE	P: +/- 10 D.O.:		TURB: +/- (0.1 OR	= 10</td <td>TEMP.; +/- 0.5°C</td>	TEMP.; +/- 0.5°C
NUMBER SIZE TYPE PRESERVA		NUMBER	SIZE	TYPE	PRESERVATIV	F - Na2S2O3 /E FILTERED
2 40 mL VOA E	□Y ☑N	2	1 L	AMBER	F	
2 40 mL VOA A		2		PLASTIC	Δ	Y V
1 100 ml PLASTIC		1		PLASTIC		
125 ML PLASTIC A		1		PLASTIC		N N N N N N N N N N N N N N N N N N N
SHIPPING METHOD: Fat Ex	DATE SHIPPED:	12/4/0			NUMBER:	VA
COC NUMBER: A/A S	SIGNATURE:	20010		DATES	ICNED.	

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PROJECT NAME: L. E. Carpenter		PREF	ARED		CHE	OKED
PROJECT NUMBER: 6527.24	BY:	JO/SM	DATE:12	14/0 BY	:	DATE:
SAMPLEAD: SW-R-G	ELL DIAMET	ER: 2"	☐ 4" ☐	6" Z OT	HER	
	OTHER	₹				
SAMPLE TYPE: GW WW KSW	□ Di	LE	ACHATE	□от	HER	
PURGING TIME: DATE:		SAT	/PLE	TIME: 16	003 D	ATE: 12/4/07
PURGE. DUMP	<u> </u>	PH:	SI) COME	DUCTIVITY:	umhos/cm
METHOD: BAILER	<u>. </u>	ORR:	m	v DO:	mg/L	
DEPTH TO WATER:		TURBIDI	<u> </u>	MT/U		
DEPTH TO BOTTOM		☐ NONE	SLI	4/ ワ	MODERATE	☐ VERY
WELL VOLUME: LITERS GA	LLONS	TEMPERA	ATURE:	V	C OTHER:	
VOLUME REMOVED: LITERS GA	LLONS	COLOR:	-		ODOR:	
COLOR: ODOR:		FILTRATE	(0.45 um)	YES	□ NO	
TURBIDITY:		FILTRATE	COLOR:		FILTRATE OD	OR:
□ NONE □ SLIGHT □ MODERATE □	VERY	QC SAME	PLE: MS/	MSD	DUR-	
DISPOSAL METHOD GROUND DRUM OT	HER	COMMEN	ITS:			<u> </u>
TIME PURGE PH CONDUCTIVITY OF	RP	D.O.	URBIDITY	TEMPERAT	WATER.	CUMULATIVE
I AME I		mg/L)	(NTU)	(°C)	LEVEL	PURGE VOLUME
	Ad to terrial to all	119/6/33	(I 3.10) 11-9-74	(0)	(FEET)	(GAL OR L)
						
		,		<u> </u>		
	1	<u> </u>				
	10					
						-
		7 7 7				
	•					
				· ·		
NOTE: STABILIZATION TEST IS COMPLETE WH						
	D.O.:	+/- 10	TURB: +/- (.1 OR	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES PRESERVATIVE CODES						
FILLED A- NONE B- HNO3	······································	H2SO4	D - NaO	H	E - HCL	F - <u>Na2S2O3</u>
	ILTERED	NUMBER	SIZE	TYPE	PRESERVATI	VE FILTERED
2 40 mL VOA E	Y 🖸 N	2	1 L	AMBER	F	□Y ☑N
2 40 mL VOA A	~ □ ¾	<u>-5</u>	500mi	PLASTIS	A	
100 ml PLASTIC	Y N	4		LASTIC	A	_ □ v □ N
1 125 TITL PLASTIC A	Y JN	4	250 mL	PLASTIC		
SHIPPING METHOD: For P. DATE SHIP			• • •	1		
<u> </u>		15/1	107	-	NUMBER:	N A
COC NUMBER: 🔥 🗘 SIGNATUR	RE:	Ann	ملمت	DATES	SIGNED.	11

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PROJEC	T NAME:	L. E.	Carpenter			PRE	PARED		CH	HECKED		5. a.4 3.5
PROJEC	T NUMBE	R: 6527	.24	· · · · · · · · · · · · · · · · · · ·	BY:	JO/SM	DATE: 12	4 07 BY	·	DATE:		1
SAMPLE	1D: A	Λ W -10	3 3	w	ELL DIAME	ETER: 2	" X 4" [6" []01	HER			Ī
WELL M	Hermonia de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión	LOSS SALES	Marss €	☐ IRON	ОТН	ER	47					-
SAMPLE		GW	□ww	□sw	□ DI		EACHATE		HER		*	1
PUR	GING	TIME:	N 50	DATE: 12	14/07	SA	MPLE	TIME:	1710	DATE: 12/	4/07	,]
PURGE	8	PUMP	QED T	Port BI	adder	PH:	7.57	SU CONI	DUCTIVITY:	· · · · · · · · · · · · · · · · · · ·	mhos/cm	
METHOD:		BAILER					31/	nv DO:	0.6 mg			1
DEPTH T	O WATER	₹.3%	T/ PVC			TURBID	ITY: 6	NTU				1
DEPTH T	о воттоі	mu N	T/ PVC			MON 🔀	E 🗌 SL	IGHT _	MODERATI	E . 🗆 v	ERY	
WELL VO	LUME:	_MU_	LITERS	6 G/	LLONS	TEMPER	ATURE; _	12.58	°C OTHER	₹:		<u> </u>
VOLUME	REMOVE	:_ %	LITERS	S GA	LLONS	COLOR:	ela	W_	ODOR:	none		
COLOR:	_7	an	-	ODOR:	none	FILTRAT	E (0.45 um)	YES	NO NO			1
TURBIDIT						FILTRATE	COLOR:	clear	FILTRATE (ODOR:	me]
NONE	🔀 sı	JGHT [VERY	QC SAM		S/MSD		90		}
DISPOSA	L METHO	O GROU	IND DR	TO MU	HER	COMME	NTS: Tot	al Alk	~ 50 pg	4002=	20	
TIME	PURGE	PH	CONDUCTO	O YTN	RP.	D.O.	TURBIDITY	TEMPERA	TURE WATE			Ferrous Fe:011
	(ML/MIN)	(SU)	(umhos/c	CAL PROPERTY.	w)	(mg/L)	(NTU)	(°C)	LEVE (FEE	eria di di Latandia di Silata di Lat	OKT)	te: Ull
1650	400	7.28	1443		29	3	17	11.4			TAL	l I
1655	1	7.43			26	3	10	10.9				
1700		7.47	1399		24	2	9	· · · · · · · · · · · · · · · · · · ·	e8 8.4			
1705		7.52				0.8	9	12.				
1710	V	7.5	1380		16	0.6	6	-	-			·
		-				0,0	<u>U</u>	12.	58 8·4	5 8		
				-						<u> </u>		
····		ļ								· .		
				<u> </u>								
. · ·												
NOTE	E: STABILI	ZATION TE	STIS COM	PLETE WH	EN 3 SUC	CESSIVE F	READINGS A	RE WITHII	THE FOLL	OWING LIMIT	 rs:	
pH: +/-	0.1	COND.: +/-	10 0	RP: +/- 10	D.O.	. +/- 10	TURB: +/-	0.1 OR	= 10</td <td>TEMP.: +/</td> <td>- 0.5°C</td> <td></td>	TEMP.: +/	- 0.5°C	
вот	TLES	PRESERV	ATIVE COD	<u>ES</u>							· · · · · · · · · · · · · · · · · · ·	
FILI	.ED	A - NO	NE	B - HNO3	C-	H2SO4	Ď - Na	ЭН	E - HCL	F- N	a2S2O3	
NUMBER	SIZE	TYPE	PRESERV	ATIVE F	LTERED	NUMBER	SIZE	TYPE	PRESERVA		TERED	
74	40 mL	VOA	E		Y V	 	1 L	AMBER	F			
14	40 mL	VOA	Α			+_/	500mL	PLASTIC	A		=	
12	100 mL	PLASTIC	Meroke		Y 🔽 N	21	1 L	PLASTIC	A			
12	125 mL	PLASTIC	A		Y 🛛 N	21	250 mL	PLASTIC	C		N V	
	METINOS	- T	C.				SOOML	Pl	B	- 7		
SHIPPING			Ex	DATE SHII		12/4		AIRBIL	L NUMBER:	MA		e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
COC NUME	BER:	M		SIGNATUR	RE:	DUENA	ORVA	DATE	SIGNED:	nlula)	Market Street Street Street

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COC NUMBER:

WATER SAMPLE LOG

PROJEC		~ " '			- yer an any no 1 110 i				
ROJEC	T NUMBE	R: 6527.	24	BY:	JO/S	M DATE: /2	/4/67 BY:		DATE:
SAMPLE	ID: M	Wella-	/2	WELL DIAN	ETER: X	2"	6" □OTI	HER	
2 5 5 2 3 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5	ATERIAL:	September 1987 September 1984 Septem	X ss □	IRON OTI	HER	•	<u></u>		
SAMPLE	TYPE:	⊠ *GW	□ww □	SW DI		LEACHATE	□отн	HER	
PUE	RGING	TIME: / 3	49 D	ATE: 12/4/6		AMPLE	TIME: 14	,23	DATE: 1274/0
PURGE	me (0444)2000000000000000000000000000000000	PUMP	Portable		PH:	Z.55	· · · · · · · · · · · · · · · · · · ·	UCTIVITY:	
METHOD		BAILER	<u>, , = , , , , , , , , , , , , , , , </u>		ORP:	0 7	nv DO:	9 mg/L	umhos/cn
DEPTH 1	O WATER:		T/ DWG 91	ainlese	TURBI		PT NTU		
			T/ PXC S	_	⊠ NO			MODERATE	☐ VERY
WELL VO	LUME:	5.65	LITERS	GALLONS	TEMPE	RATURE:	7.68	°C OTHER:	
VOLUME	REMOVED	16.0	⊠ LITERS	GALLONS	COLO	r: <u>clas</u>	<u> </u>	ODOR:	none
COLOR:		lear		OR: <u>Non l</u>	_ FILTRA	TE (0.45 um)	X YES	□ NO	
TURBIDI		40.3				TE COLOR: C		FILTRATE OF	OOR: none
NONE			MODERATE	☐ VERY			S/MSD	DUP-	
DISPOSA	AL WETHOD	GROU	ND DRUM	OTHER TO	AL COMM	ENTS: Tot	al Alk	= 110 ppm	, CO2= 4
TIME	PURGE	PH	CONDUCTIVATY	ORP	D.O	TURBIDITY	TEMPERAT	URE WATER	CUMULATIVE
	RATE (MUMIN)		(umhos/cm)	ORP (mV)	D.O. (mg/L)	FURBIDITY (NTU)	TEMPERAT	LEVEL	PURGE VOLUME
1343	RATE (MUMIN)		(umhos/cm)	公然是这种民民政策			ENGINE	LEVEL (FEET)	PURGE VOLUME (GAL/ORD)
1343 13 ⁴⁸	RATE (MUMIN) 400	(SU)	(umhos/cm) 522 449	(mV)	(mg/L)	(NTU)	(°C)	LEVEL (FEET) S.OQ	PURGE VOLUME (GAL OR D) INITIAL
1343 13 ⁴⁸	RATE (MUMIN) 400	(SU) 5.55	(umhos/cm) 522 449 444	(mV) 186.4	(mg/L) /O	(NTU) NM	(°C) 5.8(LEVEL (FEET) 8.02 7.95	PURGE VOLUME (GAL ORD) INITIAL 2.0
343 3 ⁴⁸ 3 ⁵³	RATE (MUMIN) 400	(SU) 5.55 6.89	(umhos/cm) 522 449	186.4 86.4	(mg/L) /0 9	(NTU) NM 40.3	(°c) 5.8(9. 1(1 (FEET) 4 8.0 g 7.95 7.95	PURGE VOLUME (GALORI) INITIAL 2.0 4.0
343 3 ⁴⁸ 3 ⁵⁸	(ML/MIN) 400 400 400	(SU) 5.55 6.89 7.26	(umhos/cm) 522 449 444	(mV) 186.4 86.4 49.0 33.1 29.2	(mg/L) /O 9	(NTU) NM 40.3 37.7	5.80 9.10 9.00	LEVEL (FEET) (FEET) 7.95 7.95 7.96	PURGE VOLUME (GAL OR D) INITIAL 2. O 4. O 6. O
1343 13 ⁴⁸ 13 ⁵⁸ 14 ⁰⁸	RATE (ML/MIN) 400 400 400 400	(SU) 5.55 6.89 7.26 7.36	(umhos/cm) 522 449 444 444	(mV) 186.4 86.4 49.0 33.1	(mg/L) /O 9 9	(NFU) NM 40.3 37.7 32.1	9.00 9.00 9.00	LEVEL (FEET) 8.0 2 7.95 7.95 7.96 7.97	PURGE VOLUME (GAL OR D) INITIAL 2. O 4. O 6. O
1343 1348 1358 1358 14°8 14°8	RATE (ML/MIN) 400	5.55 6.89 7.26 7.36 7.32	(umhos/cm) 522 449 444 442 440	(mV) 186.4 86.4 49.0 33.1 29.2	/mg/L) //O 9 9 9	(NFU) NM 40.3 37.7 32.1 26.2	9.00 9.00 9.00 9.00 9.35	LEVEL (FEET) 8.02 7.95 7.95 7.96 7.97 7.97	PURGE VOLUME (GAL OR D) INITIAL 2. O 4. O 6. O 7. 8. O 10. O
1343 1348 1358 1358 14°8 14°8 14°8	RATE (MUMIN) 400 400 400 400 400 400	5.55 6.89 7.26 7.36 7.32 7.44 7.56	(umhos/cm) 522 449 444 442 440 440	(mV) 186.4 86.4 49.0 33.1 29.2 18.7	70 9 9 9 9	(NFU) NM 40.3 37.7 32.1 26.2 22.2 16.3	9.00 9.00 9.00 9.35 9.35	1 EVEL (FEET) 6 7.95 7.95 7.95 7.96 7.97 7.97 7.97 7.97 2 8.00	PURGE VOLUME (GALORIO) INITIAL 2.0 4.0 6.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7
1343 1348 1358 1358 14°8 14°8 14°8	RATE (ME/MIN) 400 400 400 400 400 400 400	5.55 6.89 7.26 7.36 7.32 7.44	(umnos/cm) 522 449 444 442 440 440 440	(mV) 186.4 86.4 49.0 33.1 29.2 18.7 11.8	70 9 9 9 9 9	(NTU) NM 40.3 37.7 32.1 26.2 22.2	9.00 9.00 9.00 9.00 9.35 9.35	LEVEL (FEET) 8.02 7.95 7.95 7.96 7.97 7.19 2.8.00 8.01	PURGE VOLUME (GAL OR D) INITIAL 2. O 4. O 6. O 8. O 10. O 12. O 14. O
1343 1348 1358 1358 14°8 14°8	### RATE (MUMIN) ### 100 ### 100 ### 100 ### 100 ### 100 ### 100 ### 100 ### 100 ### 100 ### 100 ### 100 ### 100 ### 100 ### 100	5.55 6.89 7.26 7.36 7.32 7.44 7.56 7.56	(umnos/cm) 522 449 444 442 440 440 440 448	(mV) 186.4 86.4 49.0 33.1 29.2 18.7 [1.8	70 9 9 9 9 9 9	(NTU) NM 40.3 37.7 32.1 26.2 22.2 16.3 11.2	9.00 9.00 9.00 9.35 9.35 9.46	1. EVEL (FEET) 2 7.95 3 7.96 8 7.97 7 7.97 7 7.99 2 8.00 8 8.01	PURGE VOLUME (GAL OR D) INITIAL 2. O 4. O 6. O 8. O 10. O 12. O 14. O
1343 1348 1358 1358 14°8 14°8 14°8 14°8	### RATE (ME/MIN) 400 400 400 400 400 400 400 400 400 40	5.55 6.89 7.26 7.36 7.32 7.44 7.56 7.55	(umnos/cm) 522 449 444 442 440 440 440 448	(mV) 186.4 86.4 49.0 33.1 29.2 18.7 11.8 6.9 2.7	70 9 9 9 9 9 9 9	(NFU) NM 40.3 37.7 32.1 26.2 22.2 16.3 11.2 8.07	9.00 9.00 9.00 9.35 9.35 9.45 9.46	1. EVEL (FEET) 2 7.95 2 7.95 3 7.96 3 7.97 7 7.97 7 7.99 2 8.00 8 8.02	PURGE VOLUME (GALORIO) INITIAL 2.0 4.0 8.0 10.0 12.0 19.0 16.0
1343 1348 1358 1358 14°8 14°8 14°8 14°8	RATE (ML/MIN) 100	5.55 6.89 7.26 7.36 7.32 7.44 7.56 7.55	(umhos/cm) 522 449 449 440 440 440 439 439	(mV) 186.4 86.4 49.0 33.1 29.2 [6,7 [1.8 6.9 2.7	70 9 9 9 9 9 9 9	(NFU) NM 40.3 37.7 32.1 26.2 22.2 16.3 11.2 8.07	9.00 9.00 9.00 9.35 9.35 9.49 9.60	LEVEL (FEET) 2 8.0 2 7.95 7.95 7.97 7.97 7.97 8.00 8.00 THE FOLLOW	PURGE VOLUME (GALORIO) INITIAL 2.0 4.0 8.0 10.0 12.0 19.0 16.0
1343 1348 1358 1358 1408 1408 1413 1413 1423 1425 NOT	RATE (ML/MIN) 100	7.36 7.36 7.36 7.39 7.56 7.55 7.55	(umhos/cm) 522 449 449 440 440 440 439 439	(mV) 186.4 86.4 49.0 33.1 29.2 [6,7 [1.8 6.9 2.7	70 9 9 9 9 9 9 9 9 0 8	(NTU) NM 40.3 37.7 32.1 26.2 22.2 16.3 11.2 8.07	9.00 9.00 9.00 9.35 9.35 9.49 9.60	LEVEL (FEET) 2 8.0 2 7.95 7.95 7.97 7.97 7.97 8.00 8.00 THE FOLLOW	PURGE VOLUME (GAL OR D) INITIAL 2. 0 4.0 6.0 78.0 10.0 12.0 14.0 16.0
1343 1348 1358 14°8 14°8 14°8 14°8 14°8 14°8 14°8 14°	RATE (MUMIN) 400 400 400 400 400 400 400 400 400 40	7.36 7.36 7.36 7.39 7.56 7.55 7.55	(umhos/cm) 522 449 449 440 440 440 440 440 439 439 65 IS COMPLE	(mV) 186.4 86.4 49.0 33.1 29.2 [6,7 [1.8 6.9 2.7	70 9 9 9 9 9 9 9 9 0 8	(NTU) NM 40.3 37.7 32.1 26.2 22.2 16.3 11.2 8.07	9.00 9.00 9.00 9.30 9.30 9.30 9.40 9.40	LEVEL (FEET) 2 8.0 2 7.95 7.95 7.97 7.97 7.97 8.00 8.00 THE FOLLOW	PURGE VOLUME (GAL OR D) INITIAL 2. 0 4.0 6.0 78.0 10.0 12.0 14.0 16.0
1343 1348 1358 14°8 14°8 14°8 14°8 14°8 14°8 14°8 14°	RATE (ME/MIN) 400 400 400 400 400 400 400 400 400 40	7.36 7.36 7.36 7.39 7.56 7.55 7.55 ZATION TE	(umhos/cm) 522 449 449 440 440 440 440 440 439 439 65 IS COMPLE	(mV) 186.4 86.4 49.0 33.1 29.2 [6,7 [1.8 6.9 2.7	70 9 9 9 9 9 9 9 9 0: +/- 10	(NTU) NM 40.3 37.7 32.1 26.2 22.2 16.3 11.2 8.07 E READINGS A TURB: +/-	9.00 9.00 9.00 9.30 9.30 9.30 9.40 9.40	LEVEL (FEET) (FEET) (FEET) 7.95 7.95 7.97 7.97 7.99 8.00 8.02 THE FOLLOW	PURGE VOLUME (GAL OR D) INITIAL 2. 0 4. 0 6. 0 7. 8. 0 10. 0 12. 0 14. 0 16. 0 WING LIMITS: TEMP:: +/- 0.5°C
1343 1348 1358 1408 1408 1413 1413 1423 NOT pH: +/-	RATE (ME/MIN) 1000 4000 4000 4000 4000 4000 4000 TLES LED	7.36 7.36 7.36 7.36 7.56 7.55 7.55 ZATION TE COND.: +/- PRESERV, A - NO TYPE VOA	(umhos/cm) 522 449 449 440 440 440 440 440 4	(mV) 186.4 86.4 49.0 33.1 29.2 [6,7 [1.8 6.9 2.7	7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	(NTU) NM 40.3 37.7 32.1 26.2 22.2 16.3 11.2 8.07 E READINGS A TURB: +/-	9.00 9.10 9.00 9.35 9.35 9.45 9.46 9.66	LEVEL (FEET) (FEET) (FEET) 7.95 7.95 7.97 7.97 7.97 8.00 8.00 THE FOLLOW	PURGE VOLUME (GAL OR D) INITIAL 2. 0 4. 0 6. 0 7. 8. 0 10. 0 12. 0 14. 0 16. 0 WING LIMITS: TEMP:: +/- 0.5°C
1343 1348 1358 1408 1408 1413 1413 1413 1425 NOT PH: +/-	RATE (ME/MIN) 400 400 400 400 400 400 400 400 51 E: STABILLE 0.1 TLES LED SIZE	7.36 7.36 7.36 7.39 7.56 7.55 7.55 ZATION TE COND.: +/- PRESERV. A- NO TYPE	(umhos/cm) 522 449 449 440 440 440 440 440 4	(mlV) 186.4 49.0 33.1 29.2 16,7 11.8 6.9 2.7 TE WHEN 3 SU +/- 10 D.0	70 9 9 9 9 9 9 9 9 8 8 9 0:: +/- 10	(NTU) NM 40.3 37.7 32.1 26.2 22.2 16.3 11.2 8.07 EREADINGS A TURB: +/- D- Na(ER SIZE	9.00 9.00 9.00 9.35 9.35 9.45 9.46 ARE WITHIN 0.1 OR	LEVEL (FEET)	PURGE VOLUME (GAL OR) INITIAL 2.0 4.0 6.0 7.0 10.0 12.0 19.0 16.0 WING LIMITS: TEMP.: +/- 0.5°C F - Na2S2O3
1343 1348 1358 14°8 14°8 14°8 14°3 14°3 14°3 14°3 14°3 14°3	RATE (ME/MIN) 400 400 400 400 400 400 400 400 400 51 E: STABILI 0.1 TLES LED SIZE 40 mL	7.36 7.36 7.36 7.36 7.56 7.55 7.55 ZATION TE COND.: +/- PRESERV, A - NO TYPE VOA	(umhos/cm) 522 449 449 440 440 440 439 439 8T IS COMPLE 10 ORP: ATIVE CODES PRESERVATIVE	186.4 96.4 96.4 49.0 33.1 29.2 [%,7 [1.8 6.9 2.7 TE WHEN 3 SU +/- 10 D.0 HNO3 /E FILTERED Y	70 9 9 9 9 9 9 9 9 0:: +/- 10 :- H2SO4 NUMBE N · 2 N 1 /	(NTU) NM 40.3 37.7 32.1 26.2 22.2 16.3 11.2 7.07 EREADINGS A TURB: +/- D- Na(ER SIZE 1 L	9.00 9.00 9.35 9.35 9.35 9.45 9.66 ARE WITHIN 0.1 OR	LEVEL (FEET)	PURGE VOLUME

SIGNATURE:

DATE SIGNED:

PAGE	OF	

PROJEC	ΓNAME:	L. E. C	arpenter		(1) (3)		PRE	PARED	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C	HECK	ΞD	
PROJEC	T NUMBER	R: 6527.2	24		В	Y:	JO/SM	DATE: /2	14/07 BY:	•	DA	ATE:	
SAMPLE	1D: 412	1-19-	, B-	v s	VELL DIA	AMET	ER: 🔀 2	"	6" □OTI	ER			:
2, 1, 14 x 1 yypraw py	TERIAL:	Section Section 1	Ø ⊠ss	☐ IRON		THER			•				
SAMPLE		☐ GW	□ww	SW				EACHATE	ПОП	HER			
PUR		TIME:/5	-53	DATE:	12/4/	67	SĀ	MPLE "	TIME: /6	1%	DATE	12/4/07	1
The said washing	A. (64) 电磁磁流流光度	PUMP	Portal			07	7350000000	CONTRACTOR OF THE CONTRACTOR O				3 umhos/cm	, V
PURGE METHOD:		BAILER	101 Ide	IN OV			ORP:		ny DO:	2 .		3	Ì
DEPTH TO	O WATER:	8.99	T/ PXC	59			TURBID		6 NTU		<u></u>		
		19.45	T/ PVC	55			иои 🔀	E 🗌 SL	івнт 🗌	MODERA	NTE	☐ VERY	
WELL VO	_UME:	6.82	LITERS		SALLON	S	TEMPER	ATURE: 1	2.92	°C OTH	ER: _		
VOLUME			LITERS		SALLON	_	COLOR:		ar	ODOR:		one	
COLOR:	Bran	gisL	-	ODOR:	non	<u> </u>		E (0.45 um)		□ NO	· 		
TURBIDIT		90.8		_	-			E COLOR:				nonl	
NONE			MODERAT		THER		1	MPLE: M		DUF			
DISPOSA	L METHOD	GROUI	אם 🔲 אמ	JW 🔼 (JIHEK	420	COMME	NTS: CO2	- 1700			50pm	Ferrous
TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIV		ORP (mV)		D:O. mg/L)	TURBIDITY (NTU)	TEMPERAT	TURE LE		CUMULATIVE URGE VOLUME (GAL OR L)	I ron
1503	400	7:47	1307		29.	_	1	90.8	12.8		99	INITIAL	
1500	400	7.52	1314		00:	_	1	54,6	/3.		088	2.0	
11.03	400	7.49	1300		77.8	_	1	17.3	13.0		79	4.0]
1108	400	7.47	1290		2.4		2	9.37	12.7		10	6.0] .
16 13	400	743	1286		55.6		2	7.38	13.0		10	8.0	1
16'8	400	7.44	1283		-1.4	•	2	5.86	12.9		11	10.0	
													1
NOT	E: STABILI	ZÁTION TE	STIS COM	PLETE V	VHEN 3	SUCC	CESSIVE	READINGS	ARE WITHI	N THE FO	LLOWIN	G LIMITS:	-
pH: +/-	0.1	COND.: +/-	10 0	RP: +/- 1	10	D.O.:	+/- 10	TURB: +/	- 0.1 OR	= 10</td <td>TE</td> <td>MP.: +/- 0.5°C</td> <td></td>	TE	MP.: +/- 0.5°C	
вот	TLES	PRESERV	ATIVE COD	ĖS]
FÜ	LED	A- NO	NE	B - HNC)3	C -	H2SO4	D- N	вОН	E - HCL		F - <u>Na2S2O3</u>	
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTER	RED	NUMBE	R SIZE	TYPE	PRESE	RVATIVE	FILTERED	
. 2	40 mL	VOA	E	[_ Y [Z N	2	1 L	AMBER		F	□Y ☑N	
2	40 mL	VOA	Α]		⊿ N	71	500mL	PLASTIC	<u> </u>	Α	□Y ☑N	_
1	100 mL	PLASTIC]		ℤ Ν	1	1 L	PLASTIC		A	☐Y ☑N	
1	125 mL	PLASTIC	А	[] Y [Ν	1	250 mL	PLASTIC		C B	Y ZN]
SHIPPING	METHOD:	Fed E	Х.	DATE S	HIPPE	D: /2	2/4/0			L NUMBE	R: /	VA]
COC NUM				SIGNA				1 / 11/21	- DATE	SIGNED:	1 /	2/11/2	1

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PAGE	 ŲΓ	

SAMPLE II WELL MAT SAMPLE T PURG PURGE METHOD:	ERIAL: YPE: ING	V\W- □ PVC Ø GW	¥ ss □		METER: 🔀	2"] 6" []OT	HER	
SAMPLE TO PURGE	ERIAL: YPE: ING	□ PVC ⊠ GW	¥ ss □				ره 🗀 ه ر		
PURG	ING		TIMAN !]IRON 🗌 OT	HER				
PURGE	Tronspirent State Control		w]SW 🔲 DI		LEACHATE	□от	HER	
		TIME:	325 0/	ATE: 12 5 10	1 8	AMPLE	TIME:	see be	16/EU
METHOD:	Ľά	PUMP	QED Por	rt. Bladder		7.16	-	DUCTIVITY:	1002
	<u> </u>	BAILER			ORP:	145	mv DO:	1.0 mg	
DEPTH TO	WATER:	3,80	T/ PVC		TURBI	DITY: 99	7 мти		
DEPTH TO	воттом	<u> NM</u>	T/ PVC					MODERAT	E 💢
MELL VOLU	ME:	mu	LITERS	GALLONS	TEMPE	RATURE: _	1.34	°C OTHE	R:
VOLUME RE	EMOVED:		LITERS	GALLONS	COLO	e <u>tav</u>	<u>) </u>	ODOR:	_ ทุธภ
COLOR:	 	hown		OR: none	FILTRA	TE (0.45 um)		□ NO	
TURBIDITY:		Hery -				TE COLOR:	elr	FILTRATE	ODOR:
NONE	·	GHT 🗍	MODERATE	▼ VERY			S/MSD	DUP-	
		GROU	ND DRUM	LE OTHER	COMM	ENTS:	·		
TIME	PURGE RATE	PH	CONDUCTIVITY	ORP	Ď.O.	TURBIDITY	TEMPERA	TURE WAT	
	ML/MIN)	(SU)	(umhoš/cm)	(mV)	(mg/L)	(NTU)) (°C)	The state of the state of the state of	THE COMPANY AND ADMINISTRATION OF THE PARTY AND ADMINISTRATION
325	400	6.95	947	214	1.0	1000+	13.		
30		6.98	940	210	1.0	426	13.4		
835		7.04	982	174	1.0	268	13.3		-
840	V	7.13	996	145	10	773	12.4		
845	300	7.16	1062	165	1.0	997	11.3		50 7
			di	N				- P	*
							· · · · · · · · · · · · · · · · · · ·		
1625		S	ample				141:		
801			emple						-
			1,5						-

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PROJEC	CT NAME:	L. E.	Carpenter	, t		PR	EPARED		::CHI	ECKED :	
PROJEC	CT NUMBE	R: 6527	24		BY	: JO/S	M DATE:	5 17 BY	:	DATE:	
SAMPLE	=4D:	NM - 3	15		WELL DIAM	METER: 🔀	2"] 6" 🔲 01	HER		Ī
WELL M	IATERIAL:		⊠ss	☐ IR	ON OT	HER					1
SAMPLE	TYPE:	∏ GW	□ww	□ S\	W DI		LEACHATE	10	HER		1
PUF	RGING	TIME:	917	DATE	12/5/07	7 · S	AMPLE	TIME:	952	DATE: 12/5/07	Ī
PURGE	Ţ,	PUMP	aed R	rt E	bladder	PH:	7.12	SU CON		960 umhos/cm	7
METHOD	<u>):</u>	BAILER				ORP:	-35	mv DO:	0.2 mg/L		
DEPTH T	TO WATER	7.43	_T/ ₹∀ €	5 5		TURB	IDITY:	אדע			7
DEPTH T	го вотто		T/ PVe		· · · · · · · · · · · · · · · · · · ·	⊠ NO	NE SI	LIGHT [MODERATE	☐ VERY	
WELL VO		NM	LITERS		GALLONS		RATURE:	13.51	°C OTHER:		
	REMOVE		LITERS		GALLONS			car	ODOR:	none	_
COLOR:		proun		ODOF	e none	_ FILTRA	TE (0.45 um)		□ NO		
TURBIDI		yer					TE COLOR: _	<u>ar</u>	FILTRATE O	DOR: NOW	
NONE		IGHT _	MODERAT		VERY			S/MSD	DUP-		
DISPOSA	AL METHO	GROL	IND DR	UM LY	OTHER	COMM	ENTS: To	tal 17th	-86 POV	$CO_2 = 7$	\$ ppm
TIME	PURGE RATE	PH	CONDUCTO	/ITY	ORP	Ď.O.	TURBIDITY	TEMPERA	TURE WATER		Ferrous=
	(ML/MIN)	(SU)	(umhos/ci	m)	(m\V)	(mg/L)	(NTU)	(°C)	LEVEL (FEET)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	720 pp
917	400	7.17	981	1	94	1.0	231	13.			
922	/	7.18	98	5	57	1.0	133	13.	63 7.50	2	-
987		7.12			13	0.8	67	13.			1
932		7.13			-8	0.4	41		39 7.54		1
937		7.13	97;		-16	0.4	23	13.			1
942		7.12	96-		-21	0.3	11	13			1
947		7.13	960		-31	0.2	9	T			
952	1	7.12	94		-35						
ļ .		1.10	14	-	777	0.2	8	13.	51 7.54	14	•
	1.			_						-	
		<u> </u>									j
							4		THE FOLLO	WING LIMITS:	•
pH: +/-	U.1	COND.: +/-	10 0	RP: +/-	10 D.0	O.: +/- 10	TURB: +/-	0.1 OR	= 10</td <td>TEMP.: +/- 0.5°C</td> <td>-</td>	TEMP.: +/- 0.5°C	-
1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TLES		ATIVE COD	<u>ES</u>				* ***			
Strain Care	LED	A - NO		B- HN	1O3 C	- H2SO4	D - Na	ОН	E - HCL	F - <u>Na2S2O3</u>	
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTERE	NUMBE	R SIZE	TYPE	PRESERVAT	TIVE FILTERED	
2	40 mL	VOA ·	Е			N 2	1 L	AMBER	F	□Y ☑N	
2	40 mL	VOA	Α			V 21	500mL	PLASTIC	Α	□Y ☑ N	
1	100 mL	PLASTIC				N 1	1 L	PLASTIC	À	□Y ☑N	
1	125 mL	PLASTIC	Α			N 1	250 mL	PLASTIC	C	□Y ☑N	
SHIPPING	METHOD:	Fed	EY	DATE	SHIPPED:	nis	1000 m	AIRBII	L NUMBER:	N/A	
COC NUMI	REP.							- W	=	<u> NA</u>	
SOC NOW	DEN.	<u>NY</u>	4	SIGNA	TURE:	TY) NON	moorde	DATE	SIGNED:	12/5/07	

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PROJECT	NAME:	L. E. (Carpenter			PRE	PARED		CH	ECKED
PROJECT	Γ NUMBE	R: 6527.	24		BY:	JO/SN	DATE: 12	SOT BY		DATE:
SAMPLE	ID:	Ham-	ON	V	WELL DIAME	TER:	2"	6" X OT	HER NA	
WELL MA	wangan seripasi s	☐ PVC	SS		и № отні	R N	A	· · · · ·		
SAMPLE	TYPE:	☐ GW	□ww	□sw	[X , DI		EACHATE	□от	HER	
\ PUR(SING	TIME:		DATE:		, S/	AMPLE	TIME:	1010	DATE: 12/5/07
PURGE METHOD.		PUMP BAILER			 .	PH: ORP:		SU COND	OUCTIVITY:	umhos/cm
DEPTH TO	WATER:		T/ /PVQ			TURBIC	$\overline{}$	NTU		
DEPTH TO			T) PVE			☐ NON		 цент □	MODERATE	☐ VĒRY
WELL VOL			THER:	\$ □ @	SALLONS	TEMPE	RATURE:		C OTHER:	
VOLUME F		,	LITERS	<u> </u>	SALLONS	COLOR			ODER:	
COLOR:				ODOR:			TE (0.45 um)	YES	□ NO	
TURBIDIT	Y:			_		1	E COLOR:		FILTRATE O	DOR
NONE		IGHT [MODERAT	E	VERY			S/MSD	DUP-	
DISPOSAL	METHOD	GROU	ND DF	UM 🔲 C	THER	СОММЕ				$\overline{}$
TIME	PURGE RATE	PH	CONDUCTI	WITY	ORP '	D.O.	JURBIDITY	TEMPERAT	URE WATER	C. H. America and Saller Burger warmer are first
3.33.73	(MIMMIN)	(SU):	(umhos/c	m)	(mV)	(mg/L)	(NTU)	(°C)	(FEE)	(GAL OR L)
										INITIAL
							·			
						\ \1\	Δ			
						10	1			· .
	•							 		-
						**				
	· .	-		-						
			- 21 2 -	-						
							-	-		
NOTE pH: +/- (ZATION TE COND.: +/-		RP: +/- 1		CESSIVE : +/- 10		RE WITHIN		WING LIMITS: TEMP.: +/- 0.5°C
вотт	LES	PRESERV	ATIVE COD	ES						
FILL	ED	A- NO		B - HNO	з с-	H2SO4	D - Na	ОН	E - HCL	F - Na2S2O3
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTERED	NUMBE	R SIZE	TYPE	PRESERVA	
2	40 mL	VOA	E		Y V	2	1 L	AMBER	F	□Y √N
2	40 mL	VOA	Α		Y V	11	500mL	PLASTIC	A	□Y ☑N
. 1	100 mL	PLASTIC	hek	COMP	Y V	1	1 L	PLASTIC	A	□Y ☑N
1	125 mL	PLASTIC	A		Y 🗹 N	1	250 mL	PLASTIC		
			IF:				SDO AL	Pl	<u> </u>	
SHIPPING N	METHOD:		d Ex	DATE SI	HIPPED:	12/5	7	AIRBIL	L NUMBER:	NA
COC NUMB	ER:	Λ'	N PY	SIGNATI	URE:	MILLY	Sprice N	DATE S	SIGNED:	25/2

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PROJEC	T NAME:	L. E. (Carpenter			PRE	PARED		CHE	CKED	4
PROJEC	T NUMBE	R: 6527.	24		BY:	JO/SN	DATE: 12	15 07 BY	•	DATE:	
SAMPLE	ID:	Mw-	2512)		WELL DIAN	METER: 📈	2"] 6" 🔲 ОТ	HER		
WELL M	ATERIAL:	PVC	⊠ ss	☐ IR	ои 🗌 оті	HER		. 41			1
SAMPLE	TYPE:	⊠ GW	□ww	□ s\	W □DI		LEACHATE	ОТ	HER		
PUR	GING	TIME: 1	100	DATE	12/5/0	1 s	AMPLE :	TIME:	(145	DATE: 12/67	<u> </u>
PURGE METHOD:	•	PUMP BAILER	QED	Port	. Bladd	PH: ORP:	20		DUCTIVITY:	616 umhos/cm	1
DEPTH T	O WATER:	0.00	T/ PVC	<i>5</i> 5		TURBIT					-
	O BOTTON	- 1 1	_T/ P∀C			_ пои		IGHT 🗌	MODERATE	▼ VERY	
WELL VO	·	NW	K LITERS	; _	GALLONS	TEMPE	RATURE:	6.81	°C OTHER:		-
VOLUME	REMOVED	ं ।स	X LITERS	; <u> </u>	GALLONS	COLOR		of flooring		none	
COLOR:			eddish	ODOR	: none	FILTRA	TE (0.45 um)	1	□ NO		"
TURBIDIT	ΓY:	very					E COLOR:	dr		OR: none	1
NONE	SL	івнт 🗀	MODERAT	E '	▼ VERY	QC SAI		S/MSD	DUP-		1
DISPOSA	L METHOE	GROU	ND DR	им 🔀	OTHER P	COMMI	ENTS: To	tal All	= 100 ppn	Femous=	20 ppm
TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIV		ORP (mV)	√D.O. (mg/L)	TURBIDITY	TEMPERA	LEVEL	PURGE VOLUME	Coz= 110
1100	400	7.20	1		-62	0.3	389	9.2		(GALO(13)	
11:05	,,,,	7.12			-48	0.2	313	8.1		+	1
1110		7.11	43		-33		255				1
1115	 	7.12	<u> </u>			0.2		7.7		 	.
1120	 		62		-26		189	7.3		/	4
1125	 	7.14			-11	0.3	137	7.0	_		-
	 	7.14			12	0.4	108	6.8			1
1130		7.14	60		16	0.6	110	6.7		12	
1135		7.15	612		23	0.6	111	6.7		14	·
1140		7.14	61	1	28	0.6	120	6.8	0 2.46	16]
1145	V	7.15	611	e	30	0.6	127	6.9		18	
NOT	E: STABILI	ZATION TE	STIS COM	PLETE	WHEN 3 SU	CCESSIVE		ARE WITHIN	THE FOLLOY		1
pH: +/-		COND.: +/-		RP: +/-		O.: +/- 10	TURB: +/-		= 10</td <td>TEMP.: +/- 0.5°C</td> <td></td>	TEMP.: +/- 0.5°C	
BOT	TLES	PRESERV	ATIVE COD	ES	,		 			·	1
340 1	LED	A- NO		— B- HN	103 . 0	- H2SO4	D - Na	ОН	E- HCL	F - Na2S2O3	
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTERED			TYPE	PRESERVAT		
2	40 mL	VOA	E		□ Y ☑ I	·	1 L	AMBER	F	7.	·
2	40 mL	VOA	Α				500mL	PLASTIC	A	N N	
1	100 mL	PLASTIC		NEW			1 L	PLASTIC		N Q A	
1	125 mL	PLASTIC	A				250 mL	PLASTIC	Α	□Y ☑N	
					<u></u>		250 mL	PLASTIC	С В	Y VN	
SHIPPING	METHOD:	red	Ex	DATE	SHIPPED:	<u>ष्येडी०</u>	1	AIRBIL	L NUMBER:	NA	
COC NUM	BER:		A	SIGNA	TURE:	2 ENG	minde	DATES	SIGNED:	12/5/07	

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LUCE	Or

CHECKED



PROJECT NAME:

L. E. Carpenter

WATER SAMPLE LOG

PREPARED: .

PROJEC	T NUMB	ER: 6527	.24	B	Y: JO/SN	DATE:	507 BY	<u>:</u>	DATE:
SAMPLE	E 1D:	MW-	C 08	WELL DIA	METER: 💢	2" 🗌 4" 🛭] 6" □OT	HER	
WELL M	ATERIAL	: PVC	⊠ ss	☐IRON ☐ 0	THER				
SAMPLE	TYPE:	₩ GW	□ww	□sw □ D		EACHATE	□от	HER	
PUR	RGING	TIME:	350	DATE: 125	07 S	MPLE	TIME:	1450	DATE: 12/5/07
PURGE		PUMP	<u>OED</u>	Port Blad	PH:	7.05	SU CON	DUCTIVITY:	
METHOD:	: [BAILER			ORP:	158	mv DO:	O·I mg/L	
DEPTH T	O WATER	: 2.75			TURBIE	OITY: TC	טדא		-
DEPTH T	о вотто	M 1100	_T/ PVC)	□ NON	IE S	LIGHT 💢	MODERATE	☐ VERY
WELL VO	LUME:	<u>NA</u>	LITERS	GALLONS	S TEMPE	RATURE: _	10.02	°C OTHER:	
VOLUME	REMOVE		LITERS	GALLONS	COLOR	<u>। विभ</u>	- tan	ODOR:	none
COLOR:		namag 101	(Mark)	ODOR: NOTE	FILTRA	ΓE (0.45 um)	YES	□ NO	
TURBIDI		ver				E COLOR:	clr		OR: not
NONE		LIGHT _	MODERATE			MPLE: M	S/MSD	DUP- C	>3
DISPOSA	AL METHO	D 🔲 GROL	IND DRU	M COTHER	СОММЕ	NTS:	stal A	1k=100 p	em Ferro
TIME	PURGE	PH	CONDUCTIV	TY ORP	D.O.	TURBIDITY	TEMPERA	TURE WATER	
	RATE (ML/MIN	(SU)	(umhos/cm		(mg/L)	(NTU)	(°C)	LEVEL	PURGE VOLUME (GAL OR 1)
1350	400	7.08	500	85	0.6	578	10.1		
1355	1	7.04	499	90	0.4	439			·
1400	1. 1	7.00	495		0.3	328	10 .		
1405		6.99	495	103	0.3	281	9.9		6
1410	 	7.00	495	108	0.2	223	9.5		+
1415		7.01	110	112	0.2		9.9	_ 	
1420	-		493		+	167			· · · · · · · · · · · · · · · · · · ·
		7,02	1		0.2	148	9.4		2
1425	 	7.00	495		0.1	106	9.5		
1430	1	7.00	494		0.1	92	9.6		16
1435	V	7.60	496	125	6.1	85	9.6	8 2.55	18
NOTE	E: STABIL	IZATION TE	STIS COMP	LETE WHEN 3 S	UCCESSIVE	READINGS	ARE WITHIN	THE FOLLOW	/ING LIMITS:
pH: +/-	0.1	COND.: +/-	10 OR	P: +/- 10 D	O.: +/- 10	TURB: +/-	0.1 OR	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
	TLES	PRESERV	ATIVE CODE	S					100-1
FIL	LED	A- NO	NE B	- HNO3	C - H2SO4	D - Na	ЮН	E- HCL	F - <u>Na2S2O3</u>
IUMBER	SIZE	TYPE	PRESERVA	TIVE FILTERE	D NUMBER	R SIZE	TYPE	PRESERVATI	
24	40 mL	VOA	E		N Z4	. 1 L	AMBER	F	T IN
24	40 mL	VOA	Α			500mL	PLASTIC	A	□Y ☑N
12	100 mL	PLASTIC	Plook,	mt A	1 400	1 L	PLASTIC	A	Y VN
12	125 mL	PLASTIC	A			 	PLASTIC	C	
		- •			2	700ml	Playe	`	□Y ☑N
HIPPING	METHOD:	<u>Fed</u>	Ex I	DATE SHIPPED:	12/5/07		F 1.	L NUMBER:	M
OC NUME	BER:	NY		SIGNATURE	10	0 to 1	DATE		

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WATER SAMPLE LOG. (CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	L. E. Carpenter		i filosii	MEED HE			
PROJECT NUMBER:	6527.24	BY:	EV/JO	DATE: 125	07	BY:	DATE:

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SAMPLELDE		
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	FURGE RATE (MIZMIN)		ag inneszeme	imv	Yangre)	1850)			
1440	400	7.01	498	127	0.1	85	9.82	2.55	20
1445 1450		7.01		128	0.1	80	9.98	2.55	22 24
1450	<u> </u>	7.05	- 500	128	0.1	80	10.07	2.57	24
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DATÉ SIGNED:

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PROJECT	NAME:	L. E. C	Carpenter		PREF	PARED		CHE	OKED
ROJECT	r NUMBEI	R: 6527.2	24	BY:	JO/SM	DATE: (2/	5/07 BY:		DATE:
AMPLE	ID: M	U- 19	_7	WELL DIAME	TER: 2"	4"	6" □OTH	IER	• •
	TERIAL:			IRON OTHE	<u> </u>				·
SAMPLE		☑ GW		SW DI		ACHATE	□оть	IER	
PUR	GING	TIME: 4	33 DA	TE: 12/5/07	SAI	VPLE ::	TIME: 08	558	DATE: 12/5/0
PURGE	×	PUMP	Portable		1	.48 s	U COND	UCTIVITY: 3	126 umhos/cm
ETHOD:		BAILER			ORP:	74,2 n	DO:	.6 mg/L	
EPTH TO	O WATER:	8.31	T/ Pyt 5	5	TURBIDI	TY: 5.	NTU .	:	
EPTH TO	о воттом	20.18	TI BYC 5	>	☑ NONE	: SLI	GНТ □	MODERATE	☐ VERY
ELL VOL	UME:	7.74	LITERS	GALLONS	TEMPERA	ATURE: 🗘	2.05	°C OTHER:	
OLUME	REMOVED	10.0	LITERS	GALLONS	COLOR:	Clea.		ODOR:	none
OLOR:	,	clear	C OD	OR: none	FILTRATE	(0.45 um)	¥ YES	NO	
URBIDIT		46.7			FILTRATE	COLOR: C	lear	FILTRATE OF	OOR: none
NONE	∑ SL	_	MODERATE	☐ VERY	QC SAMI		/MSD	DUP-	
DISPOSAL	L METHOD	GROU	ND DRUM	OTHER Poly	COMMEN	ITS: CO2	- 30ppm	AIK -	Oppm fem
TIME	PURGE	PH	CONDUCTIVITY	ORP	La selle that the factor	TURBIDITY	TEMPERAT	INE WATER	
	RATE (ML/MIN)	(SU)	(umhos/cm)		mg/L)	(NTU)	(°C)	LEVEL	PURGE VOLUME (GAL OR L)
:33	400	6:48	2033		2.%	46.7	12.05		INITIAL
1.35	400	6.52	2085		1.5	10.7	12.68		3.0
343	400	6.52	2119	121.0	.8	6.2	13.5		
848	400	6.50	2129	96:4	.6	B 5,2	12.8		
953	400	6.51	2144	77.4	.6	5,2	12.5		
								1	
2858	400	6,48	2126	74.2	16	5,3	12.7	8,39	10.0
	· · · · · · · · · · · · · · · · · · ·		•						•
···			,			 			
	-								
NOTE	: STABILI	ZATION TE	STIS COMPLE	TE WHEN 3 SUC	CESSIVE R	EADINGS A	RE WITHIN	THE FOLLO	WING LIMITS:
pH: +/-	0.1	COND.: +/-	10 ORP:	+/- 10 D.O.	+/- 10	TURB: +/-	0.1 OR	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
вотт	TLES	PRESERV	ATIVE CODES						
FILL	ED .	A- NO	NE B-	HNO3 C-	H2SO4	D - Na	ОН	E - HCL	F - Na2S2O3
UMBER	SIZE	TYPE	PRESERVATIV	E FILTERED	NUMBER	SIZE	TYPE	PRESERVA	TIVE FILTERED
2.	40 mL	VOA	E	□Y ☑N	2	, 1 L	AMBER	F.	□Y ☑N
2	40 mL	VOA	Α	Y V N	1	500mL	PLASTIC	Α	□Y ☑N
1	100 mL	PLASTIC		□Y ☑N	1	1 L	PLASTIC	A	
1	125 mL	PLASTIC	A		1	250 mL	PLASTIC	C ·	
						500 mL		- 6	
HIPPING I	METHOD:	Fool	L DA	TE SHIPPED: 🔟	~ / >-/	A 📆	I II GOLA	NUMBER:	RID

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COC NUMBER:

WATER SAMPLE LOG

DEPTH TO WATER: S&4 T BK PVC	PROJECT	NAME:	L. E. (Carpenter			PRE	PARED		CHE	CKED	A A
WELL MATERIAL:	PROJECT !	NUMBE	R: 6527.	24		BY:	JO/SN	DATE: 18	15/07 BY		DATE:	
WELL MATERIAL	SAMPLEAD	· mi	/a-		WE	ELL DIAME	TER: 🔀	2"] 6" OT	HER		Ī · ·
PURGING TIME /05 7 DATE /2/5/07 SAMPLE TIME: 1/42 DATE /2/5/07 PURGE	WELL MAT				☐ IRON	П отн	ER					
PURCE	SAMPLE T	/PE:	⊈ GW	□ww	Sw	□ DI		EACHATE	□от	HER		4
Purple P	PURG	NG :	TIME: /C	57	DATE: 12	15/07	SF	MPLE	TIME: 1	142	DATE: /2/5/07	j
DEPTH TO WATER: \$\frac{\frac	PURGE	X	PUMP	Portabl			PH:		SU CONE]
DEPTH TO BOTTOM \$\(\) 5.44 TI PVC	METHOD:		BAILER				ORP:			1.6 mg/L		
NELL VOLUME: 4.30 LITERS GALLONS TEMPERATURE: 12.59 'C OTHER: VOLUME REMOVED: (8.0	DEPTH TO V	NATER:	8.84	T/ PMC	PUC	<u>.</u>	TURBIC	DITY: 3.	57 _{NTU}]
VOLUME REMOVED: 16,0 R LITERS GALLONS COLOR: C 20 ODOR: NO COLOR: C 20 ODOR: NO COLOR: C 20 ODOR: NO COLOR: C 20 ODOR: ODOR: ODOR: C 20 ODOR: OD	DEPTH TO E	BOTTOM	15.44	T/ PVC			⊠ NON	E 🗌 SL	.IGHT 🗌	MODERATE	☐ VERY	
COLOR: Cloudy / Screpche* ODOR: 10.11 FILTRATE (0.45 um) Yes NO TURBIDITY: 282 FILTRATE COLOR: Clear FILTRATE ODOR: 10.01 NONE SLIGHT MODERATE VERY OC SAMPLE: MS/MSD DUP- DISPOSAL METHOD GROUND DRUM OTHER FIV COMMENTS: Fattous & 4.9pm (0.2-30,pm)	MELT AOTIN	ME:	4.30	LITERS	☐ GA	LLONS	TEMPER	RATURE: _	2.59	°C OTHER:]
TURBIDITY: 282	VOLUME RE	MOVED	18,0	LITERS	☐ GA	LLONS	COLOR	: <u></u>	ear	ODOR:	ponl	
NONE	COLOR:		_ ' /	rey color	ODOR:	none	FILTRAT	E (0.45 um)	X YES	□ NO	•	
DISPOSAL METHOD GROUND DRUM OTHER PILY COMMENTS: Farrous Fa . 4 ppm Co. 3 dpm Alk-/39	TURBIDITY:						FILTRAT	E COLOR:	lear	FILTRATE OF	OR: none]
TIME PURGE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE LEVEL PURGE VOLLIME (MININ) (SU) (umhosicm) (mV) (mga) (NTU) (C) (FEET) (GALORI)	NONE	SL	IGHT 📈	MODERATE		VERY	QC SAN	APLE: M	S/MSD	DUP-		1
TIME PURGE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE LEVEL PURGE VOLLUME (MININ) (SU) (umbosicm) (mV) (mg/l) (NTU) (C) (TEFT) PURGE VOLLUME (EVEL PURGE VOLLUME (MININ) (SU) (umbosicm) (mV) (mg/l) (NTU) (C) (TEFT) PURGE VOLLUME (MININ) (SU) (umbosicm) (mV) (mg/l) (NTU) (C) (TEFT) PURGE VOLLUME (MININ) (SU) (umbosicm) (mV) (mg/l) (NTU) (C) (TEFT) PURGE VOLLUME (MININ) (SU) (umbosicm) (mV) (mg/l) (NTU) (C) (TEFT) PURGE VOLLUME (MININ) (SU) (umbosicm) (mV) (mg/l) (NTU) (C) (TEFT) PURGE VOLLUME (MININ) (SU) (umbosicm) (mV) (mg/l) (TU) (TEFT) PURGE VOLLUME (MININ) (SU) (umbosicm) (mV) (mg/l) (TU) (TEFT) PURGE VOLLUME (MININ) (SU) (mg/l) (MININ) (SU) (mg/l) (MININ) (SU) (mg/l) (MININ) (SU) (mg/l) (MININ) (SU) (MININ) (MININ) (SU) (MININ) (MIN	DISPOSAL N	METHOD	GROU	ND 🗌 DRU	то 🔀 м	HER POLY	COMME	NTS: Forse	us Fa	4 ppm	0 - 3000M	AIV
RATE MUMMIN (SU) (umbosion) (mb) (mgL) (NTU) (CC) (FEET) (GALORI)			PU.	CONDUCTIVI	TV O	20	Charles and the last	enter and and and	in the large to the state of th	TO DESIGNATED	CUMULATIVE	1 414- 1300
1057 400 4.32 262 110.4 4.7 282 11.83 8.84 INITIAL 1102 400 6.16 256 62.3 3.8 201 12.40 8.97 2.0 110.7 400 6.18 256 48.1 3.5 97 12.40 8.97 4.0 11.18 400 6.15 259 44.6 3.4 60.9 12.28 8.98 6.0 12.18 8.98 6.0 12.28 8.98 6.0 12.28 8.98 6.0 12.28 8.98 6.0 12.28 8.98 6.0 12.28 8.98 6.0 12.28 8.98 6.0 12.28 8.98 6.0 12.28 8.98 6.0 12.28 8.98 6.0 12.28 8.98 6.0 12.28 8.98 10.0 12.29 400 6.15 267 40.5 2.78 22.5 12.36 8.98 10.0 12.7 400 6.15 267 40.1 2.1 10.68 12.48 8.98 10.0 12.7 400 6.16 3.04 43.2 1.7 6.1 12.36 8.98 16.0 12.7 400 6.17 31 45.0 1.6 3.57 12.58 8.99 19.0 12.7 400 6.17 31 45.0 1.6 3.57 12.58 8.99 19.0 12.0 12.28 12.28 12.0 12.28 12.28 12.0 12.28 12.28 12.28 12.0 12.28		G 57 57 74		基本的分别的		部の特別	的研究的。因为			TEAET	PURGE VOLUME	
107 400 6.18 256 48.1 3.5 97 12.40 8.97 4.0 118 400 6.15 259 44.6 3.4 60.9 13.28 8.98 6.0 127 400 6.18 263 41.1 3.1 32.5 12.45 8.98 8.0 129 400 6.15 267 40.5 2.78 22.5 13.36 8.98 10.0 127 400 6.21 278 38.4 2.3 16.3 12.53 8.98 12.0 132 400 6.19 287 40.1 2.1 10.68 12.42 8.78 14.0 137 400 6.16 304 43.2 1.7 6.1 12.36 8.98 16.0 148 400 6.17 31 45.0 1.6 3.57 12.53 8.99 18.0 NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: PH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR = 10 TEMP.: +/- 0.5°C BOTTLES PRESERVATIVE CODES A- NONE B- HNO3 C- H2SO4 D- NaOH E- HCL F- Na2S2O3 AUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED 2 40 mL VOA A Y N 2 1 L AMBER F Y N N 1 100 mL PLASTIC A Y N 1 1 L PLASTIC A Y N N 1 100 mL PLASTIC A Y N 1 1 L PLASTIC A Y N N 1 125 mL PLASTIC A Y N 1 1 L PLASTIC A Y N N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>												
11 2 400 6.15 259 44.6 3.4 60.9 12.28 5.98 6.0 12 400 6.15 263 41.1 3.1 32.5 12.45 8.98 8.0 12 400 6.15 267 40.5 2.78 22.5 13.36 7.98 10.0 12 400 6.21 278 38.4 2.3 16.3 12.5 7.98 12.0 13 400 6.19 277 40.1 2.1 10.68 12.42 7.78 14.0 13 400 6.17 311 45.0 1.6 3.57 12.5 8.99 15.0 14 400 6.17 311 45.0 1.6 3.57 12.5 8.99 15.0 NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: PH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR = 10 TEMP.: +/- 0.5°C BOTTLES PRESERVATIVE CODES A- NONE B- HNO3 C- H2SO4 D- N8OH E- HCL F- N82S2O3 JUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED 2 40 mL VOA E Y N 2 1 L AMBER F Y N N 2 40 mL VOA A Y N 2 1 L AMBER F Y N N 1 100 mL PLASTIC A Y N 1 1 L PLASTIC A Y N N 1 100 mL PLASTIC A Y N 1 1 L PLASTIC A Y N N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N </td <td>1 -</td> <td></td>	1 -											
11		-						97	12.4			<u> </u>
122 400 6.15 2.67 40.5 2.78 22.5 13.36 6.98 10.0 127 400 6.21 2.78 38.4 2.3 12.53 6.98 12.0 132 400 6.19 2.7 40.1 2.1 10.68 12.42 6.97 14.0 137 400 6.16 3.04 43.2 1.7 6.1 12.36 8.98 16.0 142 400 6.17 31 45.0 1.6 3.57 12.53 8.99 18.0 NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: PH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR = 10 TEMP.: +/- 0.5°C BOTTLES PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Na2S203 AUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED 2 40 mL VOA A Y N 2 1 L AMBER F Y N N 1 100 mL PLASTIC A Y N 1 1 L PLASTIC A Y N N 1 125 mL PLASTIC A Y N 1 1 L PLASTIC C Y N N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N </td <td>1112 4</td> <td>00</td> <td></td> <td>259</td> <td>4</td> <td>4.6</td> <td>3.4</td> <td>60.9</td> <td>12.</td> <td>28 8.98</td> <td>6.0</td> <td>]</td>	1112 4	00		259	4	4.6	3.4	60.9	12.	28 8.98	6.0]
123 400 6.15 2.67 40.5 2.78 22.5 13.36 8.98 10.0 127 400 6.21 2.78 38.4 2.3 12.53 8.98 12.0 132 400 6.19 2.77 40.1 2.1 10.68 2.42 8.78 14.0 137 400 6.16 304 43.2 1.7 6.1 12.36 8.98 16.0 142 400 6.17 31 45.0 1.6 3.57 12.53 8.99 19.0 NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: PH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR = 10 TEMP:: +/- 0.5°C BOTTLES PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Na2S203 AUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED 2 40 mL VOA A Y N 2 1 L AMBER F Y N N 1 100 mL PLASTIC A Y N 1 1 L PLASTIC A Y N N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N </td <td>1117 4</td> <td>100</td> <td>6.18</td> <td>263</td> <td><u> </u></td> <td>1.1</td> <td>3.1</td> <td>32.5</td> <td>12.1</td> <td>15 8,98</td> <td>8.0</td> <td></td>	1117 4	100	6.18	263	<u> </u>	1.1	3.1	3 2.5	12.1	15 8,98	8.0	
127 400 6.21 2.78 38.4 2.3 16.3 12.53 7.98 12.0 132 400 6.19 2.87 40.1 2.1 10.68 12.42 3.78 14.0 137 400 6.16 3.04 43.2 1.7 6.11 12.36 8.98 16.0 142 400 6.17 311 45.0 1.6 3.57 12.53 8.99 19.0 NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: PH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR = 10 TEMP.: +/- 0.5°C BOTTLES PRESERVATIVE CODES A- NONE B- HNO3 C- H2SO4 D- NaOH E- HCL F- Na2S2O3 AUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED 2 40 mL VOA A Y N 2 1 L AMBER F Y N N 2 40 mL VOA A Y N 2 1 L AMBER F Y N N 1 100 mL PLASTIC A Y N 1 1 L PLASTIC A Y N N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N </td <td>1122 4</td> <td>100</td> <td>6.15</td> <td>26</td> <td>7 4</td> <td>0.5</td> <td>2.7</td> <td>22.5</td> <td>/a. 3</td> <td></td> <td></td> <td></td>	1122 4	100	6.15	26	7 4	0.5	2.7	22.5	/a. 3			
132 400 6.19 3.87 40.1 2.1 10.68 3.42 5.78 14.0 137 400 6.16 304 43.2 1.7 6.1 12.36 8.98 16.0 142 400 6.17 31 45.0 1.6 3.57 12.58 8.99 18.0 NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: PH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR = 10 TEMP.: +/- 0.5°C BOTTLES PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Na2S2O3 AUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED 2 40 mL VOA E Y</td <td>1127 4</td> <td>100</td> <td>6.21</td> <td>2 78</td> <td>3</td> <td>8.4</td> <td>2.3</td> <td>11.3</td> <td></td> <td>8.98</td> <td></td> <td>1</td>	1127 4	100	6.21	2 78	3	8.4	2.3	11.3		8.98		1
137 400 6.16 304 43.2 1.7 6.1 12.36 8.98 16.0 142 400 6.17 31 45.0 1.6 3.57 12.58 8.99 19.0 NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: PH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR = 10 TEMP.: +/- 0.5°C BOTTLES PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Na2S2O3 JUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED 2 40 mL VOA E Y V N 2 1 L AMBER F Y V N 1 2 40 mL VOA A Y V N 1 500 mL PLASTIC A Y V N 1 1 100 mL PLASTIC A Y N 1 1 L PLASTIC C Y N N 1 1 125 mL PLASTIC A Y V N 1 250 mL PLASTIC C Y V N N 1 1 125 mL PLASTIC A Y V N 1 250 mL PLASTIC C Y V N N 1 1 125 mL PLASTIC A Y V N 1 250 mL PLASTIC C Y V N N 1 1 125 mL PLASTIC A Y V N 1 250 mL PLASTIC C Y V N N 1 1 125 mL PLASTIC A Y V N 1 250 mL PLASTIC C Y V N N 1 250 mL PLASTIC C Y V N N 1 250 mL PLASTIC C Y V N N 1 250 mL PLASTIC C Y V N N 1 250 mL PLASTIC C Y V N N 1 250 mL PLASTIC C Y V N N 1 250 mL PLASTIC C Y V N N 1 250 mL PLASTIC C Y V N N 1 250 mL PLASTIC C Y V N N 1 250 mL PLASTIC C Y V N N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V N 1 250 mL PLASTIC C Y V V N 1 250 mL PLAS</td <td></td> <td></td> <td></td> <td>287</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.</td> <td></td>				287							1.	
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH: +/- 0.1												and the
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH: +/- 0.1										73	·	
PH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR NOR TEMP.: +/- 0.5°C BOTTLES PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Na2S2O3 NUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED 2 40 mL VOA E Y N 2 1L AMBER F Y N 2 40 mL VOA A Y N 2 500mL PLASTIC A Y N 1 100 mL PLASTIC A Y N 1 1 PLASTIC C Y N												j
BOTTLES												
FILTED A-NONE B-HNO3 C-H2SO4 D-NaOH E-HCL F-Na2S2O3 NUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED 2 40 mL VOA E Y N 2 1 L AMBER F Y N 2 40 mL VOA A Y N 1 500mL PLASTIC A Y N 1 100 mL PLASTIC						D.O.	. +/- 10	TURB: +/-	0.1 OR	= 10</td <td>TEMP.: +/- 0.5°C</td> <td>_</td>	TEMP.: +/- 0.5°C	_
NUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED 2 40 mL VOA E Y N 2 1 L AMBER F Y N 2 40 mL VOA A Y N 1 500mL PLASTIC A Y N 1 100 mL PLASTIC Y N 1 1 L PLASTIC A Y N 1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N				,	-						_ 	
2 40 mL VOA E	<u> </u>	Augyregy (· · · · · · · · · · · · · · · · · · ·			
2 40 mL VOA A ☐ Y ☑ N	 						+	R SIZE	TYPE	PRESERVAT	IVE FILTERED	
1 100 mL PLASTIC						 	+	1 L	AMBER	. F.	☐Y ☑N	
1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N	2 4	I0 mL	VOA	A		Y V	71	500mL	PLASTIC	Α	□ Y ☑ N	
SOUNCE B	1 1	00 mL	PLASTIC			N 🔽 N	1	1 L	PLASTIC	·A	□Y ☑N	
Storic of B	1 1:	25 mL	PLASTIC	Α		Y V N	1.			, c	□Y ŪN	
	HIPPING ME	THOD	50-10	2	DATE CHIC	ים בחי	01-1					

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PROJECT		R: 6527.	Carpenter 24		BY:	JO/SN	PARED DATE: /g	/5/0 BY	i st. bendi silette silet	DATE:	
AMPLE	ID: 🙌	1/1-16		WELL	DIAMET	ER:	2" 🚺 4"	6" □OT			
	TERIAL:	<i>P</i> VC	[X]ss [OTHE						- :
SAMPLE			XI ss				EACHATE	ΠÒΤ	HER		·
DAMPLE	ITE.	⊠ GW]sw 🗆	DI		EACHATE		HEK		
PUR	SING	TIME:	D	ATE: / 2/3	107	S/	MPLE	TIME: 15	09	DATE: /2	15/0
PURGE METHOD:		PUMP BAILER	Portable	QEO			6.36	SU COND	OUCTIVITY:	865 u	mhos/cr
DEPTH TO	WATER:	Λ ~	T/ PVC •	<u> </u>	,	TURBIC		9 NTU		<u>, </u>	
		16.58	T/ PVC S	55		NON X		IGHT 🔲	MODERAT	E	ERY
WELL VOL		19.53	LITERS	GALLO	NS		RATURE: /		°C OTHER		<u> </u>
		10.0	LITERS	GALLO	NS		clea		ODOR:	Sligh	+
COLOR:			/a fewfingo	DOR:	1		TE (0.45 ym)		□ NO		
TURBIDIT			Place	ting &	25		E COLOR:			ODOR: 16	nL
NONE	V SL		MODERATE	☐ VEF	RY		APLE: X MS		DUP-		
DISPOSAL	METHOD	GROU	ND 🗌 DRUM	∑ OTHER	Poly	· · · · ·	NTS: Fem			25 ppm C	02-4
TIME	PURGE	PH	CONDUCTIVITY	ORP		D:0.	TURBIDITY	TEMPERAT	WATE	RCUMU	ATIVE
	RATE (ML/MIN)		(umhos/cm)	(mV)	3 3 44	mg/L)	(NTU)	(°C)	LEVE	A CONTRACTOR OF THE PARTY OF TH	
444	400	6.17	1069	42.	_	7	15.6	12.0			IAL
449	400	6.23		24.9		34	19. [12.4		-	0
454	400	6.27		19.7		3	13,1	/2.5	_		
1459	400	6.30		14.6		2	11.2	124			
1504	400	6.32		11.0		2	6.49		_		
150 89	400		~ ~ ~	5.0				12.4			
	-(00	6.36	000	9.0	1	20	5,09	12.5	4 9.2	.) 10.0	<u> </u>
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					<u> </u>						
				ļ							
NOTE	: STABILI	ZATION TE	STIS COMPLI	ETE WHEN 3	succ	ESSIVE	READINGS A	RE WITHIN	THE FOLL	OWING LIMIT	rs:
pH: +/- (0.1	COND.: +/-	10 ORP:	+/- 10	D.O.:	+/- 10	TURB: +/-	0.1 OR	= 10</td <td>TEMP.: +/</td> <td>- 0.5°C</td>	TEMP.: +/	- 0.5°C
BOTT	LES	PRESERV	ATIVE CODES				· ·				
FILL		A- NO	NE B-	HNO3	C-	H2SO4	D - Na	ОН	E- HCL	F-N	a2S2O3
NUMBER	SIZE	TYPE	PRESERVATI	VE FILTE		NUMBE		TYPE	PRESERVA		TERED
2	40 mL	VOA	E		✓ N	2	1 L	AMBER	F		✓ N
2	40 mL	VOA	A		N	11	500mL	PLASTIC	Ä		
1	100 mL	PLASTIC] 	1	1 L	PLASTIC		=	
1	125 mL	PLASTIC			2 N		+		Α	L Y	
	120 IIIL	- 10-0110	^		<u> </u>	1	250 mL	PLASTIC	C B	Y	☑ N
HIPPING N	METHOD:	Fed &	_x _ D/	TE SHIPPE	D:	2/5/			L NUMBER:	MA	
OC NUMB	EĎ.	1/	A	GNATURE:	- X	+1/1	111			12/5/0	

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PROJECT NAME	L. E. '	Carpenter		FRE	PAREU .		Uni	EUKEU	
PROJECT NUME	BER: 6527.	24	BY:	JO/SM	DATE: 1	6 07 BY	:	DATE:	
SAMPLE ID:	MW-	44	WELL DIAM	ETER: 2	2"] 6" □ OT	HER		Ī
WELL MATERIA		SS □	IRON OTH	ER					┧
SAMPLE TYPE:	₩ GW	w	SW DI		EACHATE	□от	HER		1
PURGING	J TIME:	DA	TE: 12 6 01	SA	MPLE	TIME:	755	DATE: 12 4 67	
PURGE	PUMP	QED Var		_	7·39	11	•	889 umhos/cm	╡
METHOD:	BAILER			ORP:		mv DO:	1-0 mg/l	T-2 1.17	Ť
DEPTH TO WATE	R: 2.64	_T/ FWG 55		TURBID	ITY: 134	עדא			.1
DEPTH TO BOTTO	MC NO	_T/ PV0 5 5		☐ NON		IGHT 🗌	MODERATE	▼ VERY	
WELL VOLUME:	<u>NM</u>	LITERS	GALLONS	TEMPER	ATURE:	8.28	°C OTHER		
VOLUME REMOVE		LITERS	GALLONS	COLOR:	tar	ש ה כונ	ODOR:	none	
COLOR:	tan		OR: NOTE		E (0.45 um)		□ NO		
TURBIDITY:	ver				COLOR:		FILTRATE O	DOR: NOWL	
	SLIGHT _	MODERATE	VERY		IPLE: M		DUP-		
DISPOSAL METHO	DD [GROU	IND DRUM	OTHER?	COMME	NTS: CA	02-2	4 11m	remous = >	20 P/
TIME PURGE	Control of the second of the s	CONDUCTIVITY	ORP	D.O.	TURBIDITY	TEMPERAT	URE WATER	CUMULATIVE PURGE VOLUME	ZE PPM Total Alka 200 ppn
(ML/MI)	4). (SU)	(umhos/cm)	(mV)	(mg/L)	(NTU)	(°C)	Service A. March Co., March Co., Co., Co., Co., Co., Co., Co., Co.,	(GAL OF L)	200 ppn
855 400	6.90	917	97	0.8	361	7.7	8 2.64	INITIAL	
900	7.00	910	60	0.8	289	7.4	8 2.70	2	
905	7.08	909	39	1-0	220	7.2			1
910	7.13		29	1.0	189	7.2			1
915	7.15	900	20	1.0	171	7.3			
920	7.18		13	1,0	163	7.5		·	
925	7.25		5	1.0	156	-	17 2.85		
930	7.26		-1	1.0	150		2 2,8		
935	7.28		-3	1.0	144	8.3			
940 V	7.28	894	-5	1.0	141			2	
NOTE: STABIL		1	7F 14/1/F11 0 01/4		1-11	8.3]
pH: +/- 0.1	COND.: +/-	STIS COMPLET		.: +/- 10	READINGS A TURB: +/-		I THE FOLLO = 10</td <td>WING LIMITS: TEMP.: +/- 0.5°C</td> <td></td>	WING LIMITS: TEMP.: +/- 0.5°C	
		······································			1010. 17-	0.1 OK	~/= 10	1EIVIP +/- U.5 C	1
BOTTLES FILLED	A- NO	ATIVE CODES	HNO3 C	H2CO4	D. No.	0 17	=		
NUMBER SIZE	TYPE	PRESERVATIV		NUMBER	D - Na	OH TYPE	E - HCL	F - <u>Na2S2O3</u>	
2 40 mL		E	Y VN	 	+		PRESERVA		· .
2 40 mL	VOA	A			1 L	AMBER	F	□ Y ☑ N	,
1 100 mL		Meterotro Phil		 	500mL	PLASTIC	A	N G Y	
1 125 mL	PLASTIC		O"	1	1 L	PLASTIC	A	□ Y ☑ N	
, IZU IIIL		Α	□Y ☑N		250 mL	PLASTIC	Ç	U Y V	
SHIPPING METHOD	Fed	EY DAT	TE SHIPPED:	12/4/0	,	10-11	NUMBER:	M	
COC NUMBER:	NA	SIG	NATURE:	MANOR	shaer	DATE S	SIGNED:	17/10/07	en Nada e arene e e e e e e e e e e e e e e e e e e

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PROJECT NAME:	L. E. Carpenter	,	PER PRES	AREDS	HI THE CHE	K/ED
PROJECT NUMBER:	6527.24		BY:5M EVIJO	DATE: 12 10 07	BY:	DATE:

SAMPLEDD: WWF905	
PIME PURGE PH LOCKDUCTIVATY ORP.	

TIME	ERURCE ERALE MUMINI	i i i i i i i i i i i i i i i i i i i	CONTROL TIMES	i copre	o (a)	TURBIDITY	TEMPERATURE	WATER RECYCL RICEDIU	E GUMUUAYAYE FURSEVOLUME (GALIONA)
945	400	7.38		-9	0.1	138	8,32	2.85	20
950	1	7.36	888	-12	1.0	136	» 8. 3 7	2.86	22
955		7.39	889	-15	1.0	136	8.28	2.86	24
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COC NUMBER:

WATER SAMPLE LOG

PROJECT N	AME:	L. E. (Carpenter		PR	EPARED :		CHEC	KED	
PROJECT N	IUMBE	R: 6527.	24	В	Y: JO/S	M DATE:	46/07 BY		DATE:	
SAMPLE 4D		MW-	30S	WELL DI	AMETER Z	2"] 6"OT	HER	· · · · · · · · · · · · · · · · · · ·]
WELL MATE	ERIAL:	PVC	Kos □	IRON 0	THER			,		†
SAMPLE TY	PE:	Y GW	ww	SW 🗆 D	· 🗆	LEACHATE	□от	HER		
PURGI	NG	TIME: 1	033 DA	TE: 126	o1 s	AMPLE	TIME:	143 04	TE: 12/6/07	1
PURGE	×	PUMP		+ Bladde		7.45	24	<u> </u>	7/ umhos/cm	•
METHOD:		BAILER			ORP:	-50	mv DO:	O. mg/L		
DEPTH TO V	VATER:	296	T/ PVC 55		TURB	DITY: 6	7 NTU			
DEPTH TO B	OTTON	NM	T/ PYC 55		□ NO	NE 🗌 SI	JIGHT 💢	MODERATE	VERY	
WELL VOLUM	/E:	<u> Mu</u>	LITERS	GALLON	S TEMPE	RATURE:	7.74	°C OTHER:		
VOLUME RE	MOVED		LITERS	GALLON			1 blk floa	ODOR:	Slight	
COLOR:	gra	. 1		OR: 510	<i>_</i>	TE (0.45 um)		□ NO		
TURBIDITY:			M	57 1			clear	FILTRATE ODC	R: <u>h</u> me	1
NONE		IGHT □ □ GROU	MODERATE	VERY			S/MSD	DUP-		
DISPOSAL M		GROU	ND [] DROM	OTHER (COMIN	ENIS: Y	mous=	2 20 lbw	CO2= 43	ppm
	URGE :	PН	CONDUCTIVITY	ORP	. D.O.	TURBIDITY	TEMPERAT	URE WATER LEVEL	CUMULATIVE PURGE VOLUME	Total Alka
A CARLON OF THE	AL/MIN)	(SU)	(umhos/cm)	(mV)	(mg/L)	(NTU)	(*0)	· 中国中国的企业产品企业	(GAL O(1)	2001000
	400	7.43	855	-33	0.4	355	7.0	8 2.96	INITIAL	
1038		7.44	859	-42	0.4	<u> 287</u>	7.5	3 110	2	
1043	<u> </u>	7.44	866	-49	0.5	214	7.8		4	
1048		7.44	844	-49	0.5	198	7.4	2 3.13	6	
1053		7.44	867	-50	0.4	153	7.0	0 3.13	8	1
1058		7.44	864	-48	0.6	142	6.8	4 3.13	10	
1103		7.44	868	-49	0.6	127	7.5	5 3.13	12	
1108		7.44	869	-51	0.6	116	7.5		14	
1113		7.43		-48	0.8	107	7.6	_	16	
1118	4	7.44	808	-48	0,8	90	7.8		18	
NOTE: S	TABILI	ZATION TE	STIS COMPLE	TE WHEN 3 S	SUCCESSIVE	READINGS		 	NG LIMITS:	
pH: +/- 0.1		COND.: +/-			D.O.: +/- 10	TURB: +/-			EMP.: +/- 0.5°C	
BOTTLE		PRESERV	ATIVE CODES		· · · · · · · · · · · · · · · · · · ·		,			
FILLET)	A - NO	NE B-	HNO3	C - H2SO4	D - Na	ОН	E - HCL	F - Na2S2O3	·
NUMBER	SIZE	TYPE	PRESERVATIV	/E FILTER	ED NUMB	R SIZE	TYPE	PRESERVATIV	E FILTERED	
2 4	0 mL	VOA	E	_ \ \ \ \ \ \ \] N 2	1 L	AMBER	F	□Y ☑N	
2 4	0 mL	VOA	Α		N 2	500mL	PLASTIC	Α	□Y ☑N	
1 10	00 mL	PLASTIC	herringhic	Y Z	N 1	1 L	PLASTIC	Α	□Y ☑N	
1 12	25 mL	PLASTIC	A	□ Y] Ņ 1	250 mL	PLASTIC	C	□Y ☑N	
SHIPPING ME	THỘĐ:	To	d Ex DA	TE SHIPPED:		1260	5 7 7 7	NUMBER:	AIA	•

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PROJECT NAME:	L. E. Carpenter	•		PARED		i Primalie i Ee	KEDI KEDI
PROJECT NUMBER:	6527.24		BY: EV/JO	DATE: 12/4	107	BY:	DATE:

	sample io: NW-309 i	
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TIME	PURCE IRAJE (MLAMN)		CONDUCTIVE Y	ORF MNA	DO:	Trongestioners	TEMPERATURE		Evalgatili (1949) Marieve Eeralise
1123	400	7.44	\$69	-48	0.8	85	7.77	3.13	90
1128	/	7.45	•	-48	0.6	77	7.68	3.13	22
1133		7.45	869	-48	0.6	66	7.77	3.13	24
1138		7.45		-50	0.8	64	7.80	3.13	26
1143		7.45	871	-50	0.8	67	7.74	3.13	
11.65	<u> </u>	1 1-17	011	- 70	0.0	\\ \(\lambda_1 \)	(, (3112	00
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PROJECT NAME: L.	E. Carpenter		PREF	PARED		C⊩	IECKED
PROJECT NUMBER: 65	27.24	BY:	JO/SM	DATE: 12	07 BY:		DATE:
sample id: RB-	0, -	WELL DIAMET	ER: 2"	☐ 4" ☐	6" _ OT	HER	
WELL MATERIAL: PV	C	ON VOTHE	R			· · · · · ·	
SAMPLE TYPE: GV	v 🗆ww 🗆sı	W 🗖 DI	LE	ACHATE	□от	HER	
PURGING TIME:	DATE		SAN	IPLE	TIME:	1230	DATE: 12 6 07
PURGE DUMP			PH	s	CONE	OUCTIVITY:	umhos/ċm
METHOD: BAILER	₹	·	ORP:	m	v DO:	mg	/ L
DEPTH TO WATER:	T/ PNC		TURBIDIT	rY:	NTU	^	2
ДЕРТН ТО ВОТТОМ	_ N M		☐ NONE	☐ SLI	SHT_	MADERAT	► □ VERY
WELL VOLUME:	LITERS [] GALLONS	TEMPERA	TURE:		OTHER	:
VOLUME REMOVED:	LITERS	GALLONS	COLOR:			ODOR:	
COLOR:	ODOF	R:	FILTRATE	(0.45 um)	YES	□ NO	
TURBIDITY:			FILTRATE			FILTRATE (DDOR:
□ NONE □ SLIGHT	MODERATE	VERY	QC SAMF	PLE: MS/	MSD	DUP-	
DISPOSAL METHOD GR	OUND DRUM	OTHER	COMMEN	ITS:			
PURGE PH RATE PH (MEMUN) (SU			D.O. J	URBIDITY (NTU)	TEMPERAT	LEVE	L / PURGE VOLUME
							INITIAL
				٨			
			$-\nu\nu$	H	•		
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							-
		-					
IEC Pan	<u>, </u>						
المال المال	4						
NOTE: STABILIZATION	TEST IS COMPLETE	WHEN 3 SUCC	ESSIVE R	EADINGS A	RE WITHIN	THE FOLL	OWING LIMITS:
pH: +/- 0.1 COND.:	+/- 10 ORP: +/-	10 D.O.:	+/- 10	TURB: +/-	0.1 OR	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
	RVATIVE CODES				"		
FILLED A-	NONE B-HI	103 C-	H2SO4	D - NaC	Н	E - HCL	F - Na2S2O3
NUMBER SIZE TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVA	ATIVE FILTERED
2 40 mL VOA	E	□Y ☑N	2 :	1 L	AMBER	F	□Y ☑N
2 40 mL VOA	Α	□Y ☑N	FI	500mL	PLASTIC	A	
1 100 mL PLAST	10 Place count	□Y ☑N	1	1 L	PLASTIC	Α	
1 125 mL PLAST		□Y ☑N	1		PLASTIC	Ç	
SHIPPING METHOD:	ed Ex DATE	SHIDBED	12/1	SOOML	4	8	X
		SHIPPED:	12/6/			L NUMBER:	M
COC NUMBER:	SIGNA	ATURE:	Oven	ourd o	DATE S	SIGNED:	12/4/07

PAGE	OF	

COC NUMBER:

WATER SAMPLE LOG

BY: JO/SM DATE: 2/6/07 BY: DATE:
WELL MATERIAL: PVC SS IRON OTHER SAMPLE TYPE: SG GW WW SW DI LEACHATE OTHER PURGING TIME: 0856 DATE: 12/6/07 SAMPLE TIME: 094/ DATE: 12/6/67 PURGE PUMP GED Portable PH: 6.59 SU CONDUCTIVITY: 677 umhos/cm METHOD: BAILER ORP: -5%.2 mv DO: .26 mg/L
SAMPLE TYPE: V GW WW SW DI LEACHATE OTHER PURGING TIME: 0856 DATE: 12/6/07 SAMPLE TIME: 094/ DATE: 12/6/67 PURGE PUMP QED Portable PH: 6.59 SU CONDUCTIVITY: 677 umhos/cm METHOD: BAILER ORP: -5%.2 mv DO: .26 mg/L
PURGING TIME: 0856 DATE: 12/6/07 SAMPLE TIME: 094/1 DATE: 12/6/67 PURGE ▼ PUMP QED Portable PH: 6.59 SU CONDUCTIVITY: 67 y umhos/cm METHOD: □ BAILER ORP: -5%.2 mv DO: .26 mg/L
PURGE PUMP GED Portable PH: 6.59 SU CONDUCTIVITY: 677 umhos/cm METHOD: BAILER ORP: -5%.2 mv DO: .26 mg/L
PURGE PUMP GED Portable PH: 6.59 SU CONDUCTIVITY: 677 umhos/cm METHOD: BAILER ORP: -5%.2 mv DO: .26 mg/L
ORP: -5 7.2 my DO: mg/L
DEPTH TO WATER 5.49 T/ PVC SC TURRIDITY 7.49 NTU
DEPTH TO BOTTOM 22.8/TI PXC 55 KNONE SLIGHT MODERATE VERY
WELL VOLUME: 11.55 LITERS GALLONS TEMPERATURE: 11.96 °C OTHER:
VOLUME REMOVED: 18 LITERS GALLONS COLOR: Clear ODOR: none
COLOR: Cloudy Gravish ODOR: NOTE FILTRATE (0.45 um) Y YES NO
TURBIDITY: 133 FILTRATE COLOR: Clear FILTRATE ODOR: NOAL
NONE SLIGHT M MODERATE VERY QC SAMPLE: MS/MSD DUP-
DISPOSAL METHOD GROUND DRUM TO OTHER FOLY COMMENTS: FEFFORS YDDA CO2 20 PPM AIK
TIME PURGE PH CONDUCTIVITY ORP DO TURBULTY TEMPERATURE WATER CUMULATIVE
LEVEL PURGE VOLUME
(ML/MIN): (SU) (umhos/cm) (mV) (mg/L) (NTU) (°C) (FEET) (GALOR:L) 0856 400 5,29 643 164.1 6.70 133 10.27 5.69 INITIAL
0951 400 5.90 642 25.7 1.37 106.5 10.67 569 2.0
Small and I to I talk mill
0911 400 6.24 661 -14.0 .46 37.7 11.13 5.76 6.0
0916 400 6.31 666 - 24.6 .39 30.4 12.03 5.76 8.0
0931 400 6.51 675 -48.5 .29 11.4 11.95 5.76 14.0
0986 400 6.55 675 -52.9 .27 8.55 12.01 5.76 16.0
0941 400 6.59 677 -58,2 .26 7.44 11.96 5,76 18.0
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR = 10 TEMP.: +/- 0.5°C</td
BOTTLES PRESERVATIVE CODES
FILLED A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Na2S2O3
NUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED
2 40 mL VOA E YN 2 1L AMBER F YN
2 40 mL VOA A DY V N 1 500mL PLASTIC A Y N
1 100 mL PLASTIC
1 125 mL PLASTIC A Y N 1 250 mL PLASTIC C Y N
SHIPPING METHOD: Fed C X DATE SHIPPED: 12/6/07 AIRBILL NUMBER: 1/4

SIGNATURE:

DATE SIGNED:

12/6/07

PAGE	OF	
1.4/20	 Or	



COC NUMBER:

WATER SAMPLE LOG

PROJEC	T NAME:	L. E.	Carpenter	-		PRE	PARED		CHE	CKED
PROJEC	T NUMBE	R: 6527	.24		BY:	JO/SN	DATE:/2	16/67 BY	:	DATE:
SAMPLE	ID: M	U-28	55 · · ·	WEL	L DIAME	TER: 🔀	2"] 6"OT	HER	
WELL M	WELL MATERIAL: PVC XSS IRON OTHER									
SAMPLE	TYPE:	⊠ gw	□ww	□sw [ום		EACHATE	□от	HER	
PUF	RGING	TIME: /C	:43	DATE: /2/	6/07	S	MPLE	TIME: //	/33 0	ATE: 12/6/0
PURGE		PUMP	QED				6.86	SU CON	DUCTIVITY: 6	34 umhos/cm
METHOD		BAILER				ORP:	120.4	mv DO:	.20 mg/L	
DEPTH T	O WATER	5.85	T/ PVC	55	•	TURBIC	ITY: 7.0	3 NTU		
DEPTH T	O BOTTOM	1.63	T/ PXC	<i>\$</i> 5		NON 🔀	E 🗌 SI	IGHT _	MODERATE	☐ VERY
WELL VO		7,68	LITER		LONS	TEMPER	RATURE: _	1.97	°C OTHER:	
VOLUME	REMOVE	20.0	LITER:	S 🗌 GALI	LONS	COLOR	: <u> </u>	9 ^	ODOR:	none
COLOR:	cloud	4 / Gre	4/6m	ODOR: no	one	FILTRAT	E (0.45 um)	X YES	□ NO	·
TURBIDI	ΓΥ:	180	· · ·			FILTRAT	E COLOR:	lear	FILTRATE OD	OR: none
NONE	☐ SL	JGHT [MODERAT	E 🔀 v	ERY	QC SAN	/IPLE: 🗌 M	S/MSD	DUP-	
DISPOSA	L METHO	GROL	IND DF	ким 🔀 отн	ER poly	СОММЕ	NTS: Fer	rous-	20mc0	-22.5 pm A1K
TIME	PURGE	PH	CONDUCTI	VITY ORF	114 6	D.O.	TURBIDITY	TEMPERA	TIPE WATER	CUMULATIVE
20.00 P	RATE (ML/MIN)	Language	(umhos/c			(mg/L)	(NTU)		LEVEL	PURGE VOLUME
10:43	400	6.82	622			2.02	180	(°C)	(FEET)	(GAL OR L)
10:48	400		624			_		11.2		
		6.8/				.45	93.2	11.9		·
1053	400	6.81	630	,		,32	48.0	11.94		
1058	400	6.82	· · · · · ·			. 29	30.0	11.98		6.0
1103	400	6.81	631		3.7	.26	19.7	11.82	5.86	8.0
1108	400	6.82	633	-111	.4	.24	13.2	11.9	3 5.87	10.0
1113	400	6.84	633	-1/2	.8	23	10.7	12.00	5.87	12.0
1118	400	6.86	634	-114	1.8		10.4	11.89		14.0
1/23		6.86	-	-113						16.0
1/28	400		635			22	9.82	1.	5 5.86	
		· ·							THE FOLLOW	
pH: +/-		COND.: +/-		RP: +/- 10		+/- 10		0.1 OR		ing limits: TEMP:: +/- 0.5°C
вот	TLES	PRESERV	ATIVE COD	ES			· . ·			
1 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ED .	A- NO		B - HNO3	C-	H2SO4	D- Na	ОН	E - HCL	F - <u>Na2S2O3</u>
NUMBER	SIZE	TYPE	PRESERV	ATIVE FILT	TERED	NUMBER		TYPĒ	PRESERVATIV	
2	40 mL	VÕA	E	ПΥ	☑ N	2	1 L	AMBER	F	□Y ☑N
2	40 mL	VOA	Α		□ N	2	500mL	PLASTIC	Α	
1	100 mL	PLASTIC				1	1 L			
1	125 mL	PLASTIC	Α				-	PLASTIC	A	N V
· · ·				Ŭ Y	√ N	1	250 mL	PLASTIC	C.	□Y ☑N
SHIPPING	METHOD:	Fed	EN	DATE SHIPP	ED:	12/6/	07	AIRBILI	NUMBER:	NA

SIGNATURE:

DATE SIGNED:

PAGE		
PALER	1 18	



(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	L. E. Carpenter			ARED LESSES		KED
PROJECT NUMBER:	6527.24	BY:	EV/JO	DATE:/2/6/07	BY:	DATE:

SAMPEE						•			
SHINE S	FURCE RATE MALAIN)	PAR EREDI	CONDUCTIVELY		1007 1616/65	TEUREIDIA (NAU)	ininaka Jas Egit	WATER EVEL TEVEL	FIGALORIA
1/33	400	6.86		-120.4			11.97		20.0
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SIGNATURE

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DATE SIGNED: 12601

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PROJECT NAME: L. E. Carpenter		PREP	ARED		CH	ECKED:
PROJECT NUMBER: 6527.24	BY:	JO/SM	DATE:/2/	6/07 BY:		DATE:
SAMPLEID: (8-02	VELL DIAMET	ER: 2"	4"	6" X OTH	IER /	V A
WELL MATERIAL: PVC SS IRON	I ▼ OTHEF	· N	/A			
SAMPLE TYPE: GW WW SW	∑ Di		ACHATE	□отн	IER	
PURGING TIME: DATE:		SÁN	PLE :	TIME: 14	32	DATE: 12/6/07
PURGE PUMP		PK _	S	•	UCTIVITY:	umhos/cm
METHOD: BAILER		ORP:			mg/i	<u> </u>
DEPTH TO WATER: T/ PVC		TURBIDIT	×	NTU		***
DEPTH TO BOTTOM		NONE	Defi	GНТ 📮	MODERATE	☐ VERY
	ALLONS	TEMPERA	TURE:		OTHER	:
VOLUME REMOVED: TITERS G	SALLONS	COLOR:			QDOR:	
COLOR: SEOR:		FILTRATE	(0.45 um)	YES	□ mo	
TURBIDITY:		FILTRATE	COLOR:		FILTRATE C	BOR:
NONE SLIGHT MODERATE	VER	QC SAMP	LE: MS	/MSD	DUP-	
DISPOSAL METHOD GROUND DRUM C	THER	COMMEN	TS:			
	arte san silve	D.O. T	URBIDITY (NTU)	TEMPERAT	URE WATE LEVEI (FEET	PURGE VOLUME
			tion of	· · · · · · · · · · · · · · · · · · ·		INITIAL
	1	11	•			
		A				
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GRM Pump						
NOTE: STABILIZATION TEST IS COMPLETE W						WING LIMITS:
pH: +/- 0.1 COND.: +/- 10 ORP: +/- 1	U D.O.:	+/- 10	TURB: +/-	0.1 OR	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES PRESERVATIVE CODES FILLED A - NONE B - HNO	3 C-	H2SO4	D - Nac	nu Nu	E - HCL	F - Na2S2O3
TO THE THE PROPERTY OF THE PRO	FILTERED	NUMBER	SIZE	TYPE	PRESERVA	
2 40 mL VOA E	Y VN	2	1 L	AMBER	F	Y V N
2 40 mL VOA A	Y 🛛 N	<i>E</i> 1	500mL	PLASTIC	Α	□Y ☑N
1 100 mL PLASTIC	YVN	1	1 L	PLASTIC		Y V
1 125 mL PLASTIC A	Y V	1	250 mL	PLASTIC		
			KOD MAL	P		T Y N
SHIPPING METHOD: Fed CX DATE SI		2/6/0.	7	AIRBILI	L NUMBER:	NA
COC NUMBER: NA SIGNAT	URE: 9	mar Mar	111.	DATES	SIGNED:	12/1/07

Appendix D 4th Quarter 2007 Laboratory Analytical Report



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

Report Summary

Friday January 18, 2008

Report Number: L322336 Samples Received: 12/05/07Client Project: 6527.24

Description: LE Carpenter

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not he tate to call.

Entire Report Reviewed By:

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140 NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

Leslie Newton.

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12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

January 18,2008

ESC Sample # :

L322336-01

Date Received :

December 05, 2007 LE Carpenter - Surface Water

Site ID :

Description

Collected By

Sample ID

SW-D-1

Project # :

6527.24

Collection Date :

12/04/07 08:03

Parameter	Result	Det. Limit	Units	Method	Date	<u>D</u> il.
Benzene	BDL	1.0	ug/l	8260B	12/10/07	1
Toluene	BDL	5.0	uq/1	8260B	12/10/07	ĩ
Ethylbenżene	BDL	1.0	ug/l	8260B	12/10/07	ī
Total Xylenes	BDL	3.0	ug/l	8260B	12/10/07	ī
Surrogate Recovery			-9		,,-,	-
Toluene-d8	109.		% Rec.	8260B	12/10/07	1
Dibromofluoromethane	112.		% Rec.	8260B	12/10/07	ī
4-Bromofluorobenzene	94.8		% Rec.	8260B	12/10/07	ī
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	12/10/07	1.
Surrogate Recovery		•				
Nitrobenzene-d5	69.4		% Rec.	8270C	12/10/07	1
2-Fluorobiphenyl	66.6		<pre>% Rec.</pre>	8270C	12/10/07	1
p-Terphenyl-d14	74.1	•	% Rec.	8270C	12/10/07	1

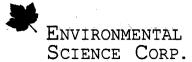
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 12/24/07 14:59 Revised: 01/18/08 13:03



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received

ESC Sample # : L322336-02

Description

December 05, 2007 LE Carpenter - Surface Water

Site ID :

Sample ID

SW-D-2

Project #: 6527.24

Collected By : Collection Date :

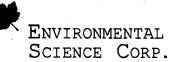
JO-SM 12/04/07 07:43

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/10/07	1
Toluene	BDL	50	ug/l	8260B	12/10/07	ī
Ethylbenzene	BDL	1.0	ug/l	8260B	12/10/07	ī
Total Xylenes	BDL	3.0	ug/l	8260B	12/10/07	ī
Surrogate Recovery			-			_
Toluene-d8	109.		% Rec.	8260B	12/10/07	1
Dibromofluoromethane	110.		% Rec.	8260B	12/10/07	ĩ
4-Bromofluorobenzene	96.9	**	% Rec.	8260B	12/10/07	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	1.5	1.1	ug/i	8270C	12/10/07	1.1
Surrogate Recovery		7.7	- 3		, -, -,	
Nitrobenzene-d5	64.4		% Rec.	8270C	12/10/07	1.1
2-Fluorobiphenyl	60.5		% Rec.	8270C	12/10/07	1.1
p-Terphenyl-d14	76.0		% Rec.	8270C	12/10/07	1.1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) Note: The reported analytical results relate only to the sample submitted.

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Reported: 12/24/07 14:59 Revised: 01/18/08 13:03



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received Description

ESC Sample # : L322336-03

December 05, 2007 LE Carpenter - Surface Water

Site ID : NJ

Project # : 6527.24

Sample ID

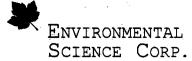
SW-D-3

JO-SM 12/04/07 07:34 Collected By Collection Date :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/10/07	1.
Toluene	BDL	5.0	ug/l	8260B	12/10/07	ī
Ethylbenzene	BDL	1.0	ug/l	8260B	12/10/07	• 1
Total Xylenes	BDL	3.0	ug/l	8260B	12/10/07	i
Surrogate Recovery			-9/-		12, 10, 0,	
Toluene-d8	110.		% Rec.	8260B	12/10/07	1
Dibromofluoromethane	113.		% Rec.	8260B	12/10/07	Ť
4-Bromofluorobenzene	92.1		% Rec.	8260B	12/10/07	. 1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.1	ug/l	8270C	12/10/07	1.1
Surrogate Recovery	 : · ·		ug, 1	02700	12/10/01	1.1
Nitrobenzene-d5	63.4	200	% Rec.	8270C	12/10/07	1.1
2-Fluorobiphenyl	58.8		% Rec.	8270C	12/10/07	1.1
p-Terphenyl-d14	75.2		% Rec.	8270C	12/10/07	1.1
					12,10,0,	

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL) Note: The reported analytical results relate only to the sample submitted.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

January 18,2008

ESC Sample # : L322336-04

Description : Date Received

December 05, 2007 LE Carpenter - Surface Water

Site ID : ÑĴ

Sample ID

SW-D-4

Collected By

Project # :

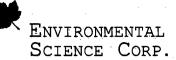
6527.24

JO-SM 12/04/07 08:57 Collection Date :

Parameter	Result	Det. Limit	Únits	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/10/07	1
Toluene	BDL	5.0	ug/l	8260B	12/10/07	ī
Ethylbenzene	1.4	1.0	ug/l	8260B	12/10/07	- 7
Total Xylenes	BDL	3.0	ug/l	8260B	12/10/07	i .
Surrogate Recovery			-5, -		//	
Toluene-d8	109.		% Rec.	8260B	12/10/07	1
Dibromofluoromethane	108.	•	% Rec.	8260B	12/10/07	î
4-Bromofluorobenzene	96.2		% Rec.	8260B	12/10/07	ī
Base/Neutral Extractables		•,		•		
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/1	8270C	12/10/07	1
Surrogate Recovery			-9/-	52.00	12/10/01	-
Nitrobenzene-d5	65.1		% Rec.	8270C	12/10/07	٠ 1
2-Fluorobiphenvl	65.6		% Rec.	8270C	12/10/07	i
p-Terphenyl-d14	66.7		% Rec.	8270C	12/10/07	i

Det. Limit - Practical Quantitation Limit(PQL) Note: BDL - Below Detection Limit

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

ESC Sample # : L322336-05

Date Received

December 05, 2007 LE Carpenter - Surface Water

Description

Site ID: ŇJ

Sample ID

SW-D-5

Project # : 6527.24

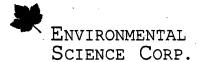
Collected By : Collection Date :

JO-SM 12/03/07 16:48

Result	Det. Limit	Units	Method	Date	Dil.
BDL	10	ug/1	8260B	12/10/07	1
BDL	5.0		8260B		1
BDL	1.0				ī
BDĹ	3.0				ī
		T 31 -		22, 20, 0.	-
111.		% Rec.	8260B	12/10/07	1
110.					ī
94.1		% Rec.	8260B	12/10/07	ī
BDI.	1.0	na/l	8270C	12/10/07	. 1
		49/4	02700	12/10/01	-
56.5		% Rec-	8270C	12/10/07	1
	*				i
72.6		% Rec.	8270C	12/10/07	1
	BDL BDL BDL 111. 110. 94.1 BDL 56.5 65.0	BDL 1.0 BDL 5.0 BDL 1.0 BDL 3.0 111. 110. 94.1 BDL 1.0	BDL 1.0 ug/l BDL 5.0 ug/l BDL 1.0 ug/l BDL 1.0 ug/l BDL 3.0 ug/l 111. \$ Rec. 110. \$ Rec. 94.1 \$ Rec. BDL 1.0 ug/l \$ Rec. 65.5 \$ Rec.	BDL 1.0 ug/l 8260B BDL 5.0 ug/l 8260B BDL 1.0 ug/l 8260B BDL 3.0 ug/l 8260B BDL 3.0 ug/l 8260B 111. \$ Rec. 8260B 110. \$ Rec. 8260B 94.1 \$ Rec. 8260B BDL 1.0 ug/l 8270C 56.5 \$ Rec. 8270C 565.0 \$ Rec. 8270C	BDL 1.0 ug/1 8260B 12/10/07 BDL 5.0 ug/1 8260B 12/10/07 BDL 1.0 ug/1 8260B 12/10/07 BDL 3.0 ug/1 8260B 12/10/07 111. \$ Rec. 8260B 12/10/07 110. \$ Rec. 8260B 12/10/07 94.1 \$ Rec. 8260B 12/10/07 BDL 1.0 ug/1 8270C 12/10/07 56.5 \$ Rec. 8270C 12/10/07 65.0 \$ Rec. 8270C 12/10/07

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

L322336-06

Date Received

December 05, 2007 LE Carpenter - Surface Water

ESC Sample # :

8270C 8270C

8270C

% Rec.

& Rec.

% Rec.

January 18,2008

12/10/07 12/10/07

12/10/07

Dil.

1

1

1

1

Description

Site ID : NJ

Sample ID

DRC-2

Project # : 6527.24

Collected By Collection Date :

Nitrobenzene-d5

2-Fluorobiphenyl

p-Terphenyl-d14

JO-SM 12/03/07 16:40

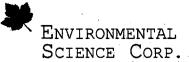
Det. Limit Parameter Result Units Method Date 1.0 5.0 1.0 Benzene BDL 8260B 12/10/07 ug/l ug/l Toluene BDL 8260B 12/10/07 Ethylbenzene BDL 8260B 12/10/07 Total Xylenes Surrogate Recovery 3.0 ug/l BDL 8260B 12/10/07 97.6 Toluene-d8
Dibromofluoromethane % Rec. 8260B % Rec. 94.2 8260B 12/10/07 4-Bromofluorobenzene 90.4 8260B % Rec. 12/10/07 Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery BDL 1.0 ug/l 8270C 12/10/07

59.5

59.8

73.2

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL) Note: The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC. Reported: 12/24/07 14:59 Revised: 01/18/08 13:03



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde

RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

ESC Sample # : L322336-07

NJ

Date Received :

December 05, 2007 LE Carpenter - Surface Water

Description

Site ID:

Sample ID

SW-R-1

Project #: 6527.24

Collected By : Collection Date :

JO-SM

12/03/07 17:04

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/08/07	1
Toluene	BDL	5.0	ug/l	8260B	12/08/07	ī
Ethylbenzene	BDL	1.0	ug/l	8260B	12/08/07	ī
Total Xylenes	BDL	3.0	ug/l	8260B	12/08/07	. ī
Surrogate Recovery			-3/-		, , , , , .	
Toluene-d8	98.5		% Rec.	8260B	12/08/07	1
Dibromofluoromethane	. 99.9		% Rec.	8260B	12/08/07	ī
4-Bromofluorobenzene	93.0		% Rec.	8260B	12/08/07	ī
Base/Neutral Extractables	*					
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	12/10/07	1
Surrogate Recovery			491-	02,00	12, 10, 0,	-
Nitrobenzene-d5	66.2		% Rec.	8270C	12/10/07	1
2-Fluorobiphenyl	64.1	•	% Rec.	8270C	12/10/07	ī
p-Terphenyl-d14	78.9		% Rec.	8270C	12/10/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

January 18,2008

Site ID :

REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde

RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

ESC Sample # : L322336-08

ŊJ

6527.24

Date Received Description

December 05, 2007 LE Carpenter - Surface Water

Collected By : Collection Date :

Sample ID

JO-SM 12/04/07 09:08

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Ďil.
Benzene	BDL	1.0	ug/l	8260B	12/10/07	1
Toluene	BDL	5.0	ug/l	8260B	12/10/07	ī
Ethylbenzene	BDL	1.0	ug/1	8260B	12/10/07	ī
Total Xvlenes	BDL	3.0	ug/l	8260B	12/10/07	ī
Surrogate Recovery		•••	-9/-	, 02002	11,10,0,	-
Toluene-d8	99.5	*	% Rec.	8260B	12/10/07	1
Dibromofluoromethane	98.5	•	% Rec.	8260B	12/10/07	1
4-Bromofluorobenzene	97.0		% Rec.	8260B	12/10/07	,î
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/1	8270C	12/10/07	. 1
Surrogate Recovery			49/1	02700	1,2/10/07	-
Nitrobenzene-d5	69.0		% Rec.	8270C	12/10/07	1
2-Fluorobiphenyl	65.4		% Rec.	8270C	12/10/07	÷
p-Terphenyl-d14	71.0		Rec.	8270C	12/10/07	+
L	11.0		· Nec.	02/00	12/10/07	7

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde

RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received Description

December 05, 2007 LE Carpenter - Surface Water

Sample ID

SW-R-3

Collected By : Collection Date :

JO-SM 12/04/07 09:12

ESC Sample # : L322336-09

Site ID: NJ

January 18,2008

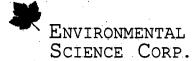
Project # : 6527.24

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/08/07	1 .
Toluene	BDL	5.0	ug/l	8260B	12/08/07	ī
Ethylbenzene	BDL	1.0	ug/l	8260B	12/08/07	ī
Total Xylenes	BDL	3.0	ug/l	8260B	12/08/07	î
Surrogate Recovery			. 49/1	02000	12/00/07	_
Toluene-d8	100.	**	% Rec.	8260B	12/08/07	. 1
Dibromofluoromethane	97.3		% Rec.	8260B	12/08/07	1
4-Bromofluorobenzene	92.7	•	% Rec.	8260B	12/08/07	i
Base/Neutral Extractables	•					
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	12/10/07	1
Surrogate Recovery		2.0	49/1	02700	12/10/01	1
Nitropenzene-d5	52.2		% Rec.	8270C	12/10/07	. 1
2-Fluorobiphenyl	59.3		% Rec.	8270C	12/10/07	1
p-Terphenyl-d14	76.3		% Rec.	8270C	12/10/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) Note:

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REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546 January 18,2008

ESC Sample # : L322336-10

Site ID:

Project # : 6527.24

Date Received

Description

December 05, 2007 LE Carpenter - Surface Water

Sample ID

SW-R-4

Collected By : Collection Date :

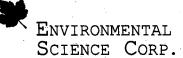
JO-SM 12/04/07 09:19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/08/07	1
Toluene	BDL	5.0	ug/l	8260B	12/08/07	. 1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/08/07	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/08/07	1
Surrogate Recovery	,		-9, -	02002	12,00,01	-
Toluene-d8	97.6		% Rec.	8260B	12/08/07	
Dibromofluoromethane	99.6		% Rec.	8260B	12/08/07	1
4-Bromofluorobenzene	97.3	•	% Rec.	8260B	12/08/07	ī
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	12/10/07	1
Surrogate Recovery			49/1	02700	12/10/01	1
Nitrobenzene-d5	69.4		% Rec.	8270C	12/10/07	. 1
2-Fluorobiphenvl	64.3		% Rec.	8270C	12/10/07	†
p-Terphenyl-d14	76.2		% Rec.	8270C	12/10/07	1
E community was	, 0.2		o Mec.	02/00	12/10/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) Note:

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REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde

RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

January 18,2008

ESC Sample # : L322336-11

Date Received

Description

December 05, 2007 LE Carpenter - Surface Water

Site ID:

Sample ID

SW-R-5

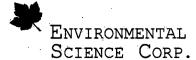
Project # : 6527.24

Collected By : Collection Date : JO-SM 12/04/07 10:17

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/10/07	1
Toluene	BDL	5.0	ug/l	8260B	12/10/07	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/10/07	. 1
Total Xylenes	BDL	3.0	ug/l	8260B	12/10/07	. 1
Surrogate Recovery			9			-
Toluene-d8	97.4		% Rec.	8260B	12/10/07	1.
Dibromofluoromethane	98.2		% Rec.	8260B	12/10/07	1
4-Bromofluorobenzene	93.7		% Rec.	8260B	12/10/07	ī
Base/Neutral Extractables				•		
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	12/10/07	1
Surrogate Recovery			49/1	02.00	12/14/0/	•
Nitrobenzene-d5	62.6		% Rec.	8270C	12/10/07	1
2-Fluorobiphenvl	57.2		% Rec.	8270C	12/10/07	ī
p-Terphenyl-d14	78.5		% Rec.	8270C	12/10/07	ī

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

ESC Sample # : L322336-12

Date Received

Description

December 05, 2007 LE Carpenter - Surface Water

Sample ID

SW-R-6

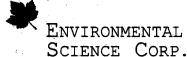
Site ID :

Project # : 6527.24

Collected By : Collection Date : JO-SM 12/04/07 10:03

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
ne	BDL	1.0	ug/1	8260B	12/10/07	1
ene .	BDL	5.0	ug/l	8260B	12/10/07	1
benzene	BDL	1.0	uq/l	8260B	12/10/07	ī
. Xylenes	BDL	3.0	ug/l	8260B	12/10/07	. 7
ite Recovery		•••	- 5, -	******	//	-
ne-d8	96.7		% Rec.	8260B	12/10/07	1
mofluoromethane	96.1		% Rec.	8260B	12/10/07	i
mofluorobenzene	97.5	<i>.</i>	% Rec.	8260B	12/10/07	į
eutral Extractables			*-			
-ethylhexyl)phthalate	BDL	1.0.	ug/l	8270C	12/10/07	1
te Recovery						
						1.
						1
phenyl-d14	81.7		& Rec.	8270C	12/10/07	1.
bbenzene-d5 korobiphenyl phenyl-d14	71.7 72.0 81.7		% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/10/07 12/10/07 12/10/07	

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) Note: The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC. Reported: 12/24/07 14:59 Revised: 01/18/08 13:03



Tax I.D. 62-0814289

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REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

ESC Sample # : L322336-13

Date Received

Description

December 05, 2007 LE Carpenter - Surface Water

Site ID :

Sample ID

DUP-01

Collected By : Collection Date :

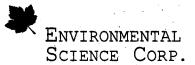
JO-SM 12/04/07 00:00

Project # : 6527.24

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/08/07	1
Toluene	BDL	5.0	ug/l	8260B	12/08/07	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/08/07	ī
Total Xylenes	BDL	3.0	ug/l	8260B	12/08/07	1
Surrogate Recovery			- 3		,,	_
Toluene-d8	97.8	•	% Rec.	8260B	12/08/07	1
Dibromofluoromethane	101.		% Rec.	8260B	12/08/07	ī
4-Bromofluorobenzene	92.5		% Rec.	8260B	12/08/07	ī
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.1	ug/l	8270C	12/10/07	1.1
Surrogate Recovery			-9/-		12/10/0/	
Nitrobenzene-d5	67.3		% Rec.	8270C	12/10/07	1.1
2-Fluorobiphenyl	68.0		% Rec.	8270C	12/10/07	1.1
p-Terphenyl-d14	79.6		% Rec.	8270C	12/10/07	1.1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

January 18,2008

ESC Sample # : L322336-14

Date Received :

Description.

December 05, 2007 LE Carpenter - Surface Water

Sample ID

TRIPBLANK

Collected By Collection Date : JO-SM

12/04/07 00:00

Site ID : ŊJ

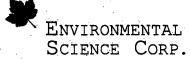
Project # : 6527.24

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene Toluene Ethylbenzene Total Xylenes	BDL BDL BDL	1.0 5.0 1.0 3.0	ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B	12/08/07 12/08/07 12/08/07 12/08/07	1 1 1
Surrogate Recovery Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	97.2 98.2 92.7		% Rec. % Rec. % Rec.	8260B 8260B 8260B	12/08/07 12/08/07 12/08/07	1 1 1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL) Note:

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REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received Description

December 05, 2007 LE Carpenter - Wells

L322336-15 ESC Sample # :

Site ID : NJ.

Sample ID .

MW-19-6

Project # : 6527.24

JO/SM

Collected By : Collection Date : 12/04/07 16:18

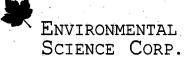
Parameter	Result	Det. Limit	Units	Method	Date	<u>D</u> il.
Nitrate Nitrite Sulfate	2300 BDL 36000	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/05/07 12/05/07 12/05/07	1 1
Methane, Total Ethane, Total Ethene, Total	87. BDL BDL	10. 10. 10.	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/06/07 12/06/07 12/06/07	1 1 1
Ammonia Nitrogen	BDL	100	ug/l	350.1	12/11/07	1
Phosphorus, Total	BDL	100	ug/l	365.1	12/06/07	1
Dissolved Solids	710000	10000	ug/l	2540C	12/11/07	1
Suspended Solids	3200	1000	ug/l	2540D	12/10/07	1
Lead, Dissolved	BDL	5.0	ug/l	6010B	12/09/07	. 1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery	BDL BDL BDL BDL	1.0 5.0 1.0 3.0	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/08/07 12/08/07 12/08/07 12/08/07 12/08/07	1 1 1 1
Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	99.8 102. 96.7		% Rec. % Rec. % Rec.	8260B 8260B 8260B	12/08/07 12/08/07 12/08/07	1 1 1
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	BDL	1.0	ug/l	8270C	12/10/07	1
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	66.3 62.7 72.1		% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/10/07 12/10/07 12/10/07	1 1 1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

ESC Sample # : L322336-16

Date Received Description

December 05, 2007 LE Carpenter - Wells

Site ID :

Sample ID

MW-19-12

Project # : 6527.24

Collected By : Collection Date :

JO/SM 12/04/07 14:23

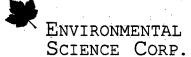
Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate Nitrite Sulfate	900 BDL 11000	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/05/07 12/05/07 12/05/07	1 1 1
Methane, Total Ethane, Total Ethene, Total	BDL BDL BDL	10. 10. 10.	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/06/07 12/06/07 12/06/07	1 1 1
Ammonia Nitrogen	BDL	100	ug/l	350.1	12/11/07	1
Phosphorus, Total	BDL	100	ug/1	365.1	12/06/07	1
Dissolved Solids	260000	10000	ug/l	2540C	12/10/07	. 1
Suspended Solids	3000	1000	ug/l	2540D	12/10/07	1
Lead, Dissolved	BDL	5.0	ug/l	6010B	12/10/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery	BDL BDL BDL BDL	1.0 5.0 1.0 3.0	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/08/07 12/08/07 12/08/07 12/08/07 12/08/07	1 1 1 1
Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	101. 102. 96.6		% Rec. % Rec. % Rec.	8260B 8260B 8260B	12/08/07 12/08/07 12/08/07	1 1 1
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	BDL	1.0	ug/l	8270C	12/10/07	1
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	62.0 61.6 76.2		% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/10/07 12/10/07 12/10/07	1 1 1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received Description

December 05, 2007 LE Carpenter - Wells

Sample ID

MW-19-4

Collected By : Collection Date :

JO/SM 12/04/07 17:10

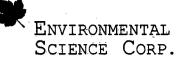
L322336-17 ESC Sample # :

Site ID :

Project # : 6527.24

Parameter	Result	Det. Limit	Units	Method	Date	<u>D</u> 11.
Nitrate Nitrite Sulfate	2600 BDL 38000	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/05/07 12/05/07 12/05/07	. 1
Methane, Total Ethane, Total Ethene, Total	BDL BDL BDL	10. 10. 10.	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/06/07 12/06/07 12/06/07	1 1 1
Ammonia Nitrogen	BDL	100	ug/l	350.1	12/11/07	1
Phosphorus, Total	BDL	100	ug/l	365.1	12/06/07	1
Dissolved Solids	710000	10000	ug/l	2540C	12/11/07	. 1
Suspended Solids	13.00	1000	ug/l	2540D	12/10/07	1 .
Lead, Dissolved	BDL	5.0	ug/l	6010B	12/10/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery Toluene-d8	BDL BDL BDL BDL BDL	1.0 5.0 1.0 3.0 1.0	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/10/07 12/10/07 12/10/07 12/10/07 12/10/07	1 1 1 1 1
Dibromofluoromethane 4-Bromofluorobenzene	101. 89.4		% Rec.	8260B 8260B	12/10/07 12/10/07 12/10/07	1 1 1
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	BDL	10	ug/l	8270C	12/10/07	. 1
Nitrobenzene-d5° 2-Fluorobiphenyl p-Terphenyl-d14	72.0 71.2 83.7		% Rec. % Rec. % Rec.	8270C 8270C 8270C	. 12/10/07 12/10/07 12/10/07	1 1 1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

L322336-18

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received Description

December 05, 2007 LE Carpenter - Wells

Sample ID

DUP-02

Collected By : Collection Date :

JO/SM 12/04/07 00:00

Site ID :

ESC Sample # :

Project # : 6527.24

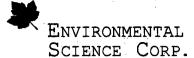
Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate Nitrite Sulfate	2600 BDL 38000	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/05/07 12/05/07 12/05/07	1 1 1
Methane, Total Ethane, Total Ethene, Total	BDL BDL BDL	10. 10. 10.	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/06/07 12/06/07 12/06/07	1 1 1
Ammonia Nitrogen	BDL	1.00	uġ/l	350,1	12/11/07	. 1
Phosphorus, Total	BDL	100	ug/l	365.1	12/06/07	1
Dissolved Solids	730000	10000	ug/l	2540C	12/10/07	1
Suspended Solids	BDL	1000	ug/l	2540D	12/07/07	1
Lead, Dissolved	BDL	5.0	ug/l	6010B	12/10/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery Toluene-d8	BDL BDL BDL BDL BDL	1.0 5.0 1.0 3.0	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/08/07 12/08/07 12/08/07 12/08/07 12/08/07	1 1 1 1 1
Dibromofluoromethane 4-Bromofluorobenzene	101. 95.5		% Rec. % Rec.	8260B 8260B	12/08/07 12/08/07	1
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	BDL	1.0	ug/l	8270C	12/10/07	1
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	65.1 59.7 71.0	e e	% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/10/07 12/10/07 12/10/07	1 1 1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Mrs. Jennifer Overvoorde

RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received

December 05, 2007 LE Carpenter - Wells

ESC Sample # : L322336-19

Description

Sample ID

TRIP BLANK

Site ID:

January 18,2008

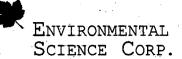
Project # : 6527.24

Collected By : Collection Date : JO/SM 12/04/07 00:00

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8/07 1
8/07 1
8/07 1
8/07 1
8/07 1
8/07 1
8/07 1
8/07 1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) Note:

The reported analytical results relate only to the sample submitted.
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January 18,2008

Mrs. Jennifer Overvoorde

RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received Description

December 06, 2007 LE Carpenter - Wells

Sample ID

MW-19

Collected By : Collection Date :

JO/SM 12/05/07 15:09

ESC Sample # : L322336-20

Site ID : NJ

Project # : 6527.24

Parameter	Result	Det. Limit	Units	Method	Date	
Nitrate Nitrite Sulfate	BDL BDL BDL	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/07/07 12/07/07 12/07/07	1 1 1
Methane, Total Ethane, Total Ethene, Total	680 BDL BDL	10. 10. 10.	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/07/07 12/07/07 12/07/07	1 1 1
Ammonia Nitrogen	6.40	100	ug/l	350.1	12/11/07	1
Phosphorus, Total	130	100	ug/l	365.1	12/10/07	1.
Dissolved Solids	500000	10000	ug/l	2540C	12/12/07	1
Suspended Solids	30000	1000	ug/l	2540D	12/11/07	1
Lead, Dissolved	BDL	5.0	ug/I	6010B	12/09/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery Toluene-d8	BDL 49000 1500 7500 BDL 99.5	250 1200 250 750 250	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/10/07 12/10/07 12/10/07 12/10/07 12/10/07	250 250 250 250 250 250
Dibromofluoromethane 4-Bromofluorobenzene	92.5 96.8		% Rec. % Rec.	8260B 8260B	12/10/07 12/10/07	250 250
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	BDL	1.1	ug/l	8270C	12/10/07	1.1
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	59.9 63.0 74.0		% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/10/07 12/10/07 12/10/07	1.1 1.1 1.1

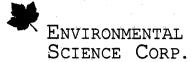
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 12/24/07 14:59 Revised: 01/18/08 13:03 L322336-20 (V8260BTEXM) - Non-target compounds too high to run at a lower dilution.



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received Description

December 06, 2007 LE Carpenter - Wells

Sample ID

MW-19-5

Collected By : Collection Date :

JO/SM 12/05/07 11:42

ESC Sample # : L322336-21

Site ID :

Project # : 6527.24

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate Nitrite Sulfate	130 BDL 7800	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/07/07 12/07/07 12/07/07	1 1 1
Methane, Total Ethane, Total Ethene, Total	370 BDL BDL	10. 10. 10.	ug/1 ug/1 ug/1	3810/RSK17 3810/RSK17 3810/RSK17	12/07/07 12/07/07 12/07/07	1 1 1
Ammonia Nitrogen	140	100	ug/l	350.1	12/11/07	1
Phosphorus, Total	120	100	ug/l	365.1	12/10/07	1
Dissolved Solids	240000	10000	ug/l	2540C	12/12/07	1
Suspended Solids	5100	1000	úg/l	2540D	12/11/07	1
Lead, Dissolved	BDL	5.0	ug/l	6010B	12/10/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery	BDL 4400 820 4200 BDL	200 250 200 600 200	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/10/07 12/11/07 12/10/07 12/10/07 12/10/07	200 50 200 200 200
Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	99.2 91.8 91.3		% Rec. % Rec. % Rec.	8260B 8260B 8260B	12/10/07 12/10/07 12/10/07	200 200 200
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	BDL	1.1	ug/l	8270C	12/10/07	1.1
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	69.5 78.0 81.1	•	% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/10/07 12/10/07 12/10/07	1.1 1.1 1.1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

ESC Sample # : L322336-22

Date Received Description

December 06, 2007 LE Carpenter - Wells

Site ID : NJ

Sample ID

DUP-03

Project #: 6527.24

Collected By : Collection Date :

JO/SM 12/05/07 00:00

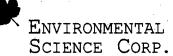
Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate Nitrite Sulfate	BDL BDL 11000	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/07/07 12/07/07 12/07/07	1 1 1
Methane, Total Ethane, Total Ethene, Total	BDL BDL BDL	10. 10. 10.	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/07/07 12/07/07 12/07/07	1 1 1
Ammonia Nitrogen	190	100	ug/l	350.1	12/11/07	. 1
Phosphorus, Total	280	100	ug/l	365.1	12/10/07	1
Dissolved Solids	270000	10000	ug/l	2540C	12/11/07	1 ·
Suspended Solids	20000	1000	ug/l	2540D	12/10/07	1
Lead, Dissolved	BDL	5.0	ug/l	6010B	12/10/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery Toluene-d8 Dibromofluoromethane	BDL 7.7 BDL BDL BDL 98.9 94.9	1.0 5.0 1.0 3.0 1.0	ug/l ug/l ug/l ug/l ug/l % Rec. % Rec.	8260B 8260B 8260B 8260B 8260B 8260B	12/11/07 12/11/07 12/11/07 12/11/07 12/11/07 12/11/07 12/11/07	1 1 1 1 1
4-Bromofluorobenzene	90.9	•	% Rec.	8260B	12/11/07	1
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	BDL	1.1,	ug/l	8270C	12/10/07	1.1
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	66.7 73.9 87.7		% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/10/07 12/10/07 12/10/07	1.1 1.1 1.1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

> L322336-23 ESC Sample # :

Date Received Description

December 06, 2007 LE Carpenter - Wells

Site ID:

Project # : 6527.24

MW-19-7 Sample ID

JO/SM

Collected By : Collection Date :

12/05/07 08:58

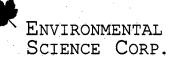
Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate Nitrite Sulfate	2600 BDL 21000	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/07/07 12/07/07 12/07/07	1 1 1
Methane, Total Ethane, Total Ethene, Total	170 BDL BDL	10. 10. 10.	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/07/07 12/07/07 12/07/07	1 1 1
Ammonia Nitrogen	230	100	ùg/l	350.1	12/11/07	1
Phosphorus, Total	BDL	100	ug/l	365.1	12/10/07	1
Dissolved Solids	1200000	10000	ug/l	2540C	12/12/07	. 1
Suspended Solids	2200	1000	ug/l	2540D	12/10/07	1
Lead, Dissolved	BDL	5.0	ùg/l	6010B	12/10/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery	BDL BDL BDL BDL	1.0 5.0 1.0 3.0 1.0	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/11/07 12/11/07 12/11/07 12/11/07 12/11/07	1 1 1 1
Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	95.8 99.1 99.7		% Rec. % Rec. % Rec.	8260B 8260B 8260B	12/11/07 12/11/07 12/11/07	1 1 1
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	BDL	1.1	ug/l	8270C	12/10/07	1.1
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	67.8 74.7 82.8		% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/10/07 12/10/07 12/10/07	1.1 1.1 1.1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:

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January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received Description

December 06, 2007 LE Carpenter - Wells

Sample ID

MW-295

Collected By : Collection Date :

JO/SM 12/05/07 09:52

L322336-24 ESC Sample # :

Site ID :

Project # : 6527.24

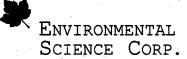
Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate Nitrite Sulfate	BDL BDL	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/07/07 12/07/07 12/07/07	1 1 1
Methane, Total Ethane, Total Ethene, Total	3100 BDL BDL	100 100 100	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/07/07 · 12/07/07 · 12/07/07	10 10 10
Ammonia Nitrogen	9300	100	ug/l	350.1	12/11/07	1
Phosphorus, Total	440	100	ug/l	365.1	12/10/07	1
Dissolved Solids	500000	10000	ug/l	2540C	12/12/07	1
Suspended Solids	66000	1000	ug/l	2540D	12/10/07	.1
Lead, Dissolved	14.	5.0	ug/l	6010B	12/10/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery	BDL BDL BDL BDL	1.0 5.0 1.0 3.0	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/10/07 12/10/07 12/10/07 12/10/07 12/10/07	1 1 1 1
Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	99.7 91.4 92.8		% Rec. % Rec. % Rec.	8260B 8260B 8260B	12/10/07 12/10/07 12/10/07	1 1 1
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	BDL	1.2	ug/l	8270C	12/10/07	1.2
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	63.7 69.6 84.2		% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/10/07 12/10/07 12/10/07	1.2 1.2 1.2

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Tax I.D. 62-0814289

6527.24

L322336-25

Est. 1970

REPORT OF ANALYSIS

January 18,2008

ESC Sample # :

Project # :

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

December 06, 2007 LE Carpenter - Wells

Site ID : MW-25R

Sample ID

Date Received Description

JO/SM 12/05/07 11:45 Collected By : Collection Date :

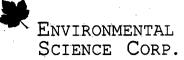
Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate Nitrite Sulfate	BDL BDL 10000	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/07/07 12/07/07 12/07/07	1 1 1
Methane, Total Ethane, Total Ethene, Total	BDL BDL BDL	10. 10. 10.	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/07/07 12/07/07 12/07/07	1 1 1
Ammonia Nitrogen	410	100	ug/l	350.1	12/11/07	1
Phosphorus, Total	430	100	ug/l	365.1	12/10/07	1
Dissolved Solids	380000	10000	ug/l	2540C	12/12/07	. 1.
Suspended Solids	490000	1000	ug/l	2540D	12/11/07	1
Lead, Dissolved	BDL	50	ug/l	6010B	12/10/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery	BDL BDL BDL BDL	1.0 5.0 1.0 3.0	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/10/07 12/10/07 12/10/07 12/10/07 12/10/07	1 1 1 1
Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	98.9 95.5 88.4	•	% Rec. % Rec. % Rec.	8260B 8260B 8260B	12/10/07 12/10/07 12/10/07	1 1 1
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery Nitrobenzene-d5	BDL 69.4	1.3	ug/l % Rec.	8270C 8270C	12/10/07 12/10/07	1,3
2-Fluorobiphenyl p-Terphenyl-d14	76.5 85.9		% Rec. % Rec.	8270C 8270C	12/10/07 12/10/07 12/10/07	1.3

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Tax I.D. 62-0814289

L322336-26

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

: Decem

ESC Sample #:

Date Received Description December 06, 2007 LE Carpenter - Wells

Site ID: NJ

Sample ID

MW-27S

Project #: 6527.24

Collected By : Collection Date :

JO/SM 12/05/07 16:25

Parameter

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sulfate	87000	5000	ug/l	9056	12/08/07	1
Methane, Total Ethane; Total Ethene, Total	22. BDL BDL	10. 10. 10.	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/07/07 12/07/07 12/07/07	1 1 1
Dissolved Solids	620000	10000	ug/l	2540C	12/12/07	. 1
Suspended Solids	260000	1000	ug/l	2540D	12/12/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether	BDL BDL BDL BDL	1.0 5.0 1.0 3.0 1.0	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/10/07 12/10/07 12/10/07 12/10/07 12/10/07	1 1 1 1
Surrogate Recovery Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	98.2 94.3 89.5	, ·	% Rec. % Rec. % Rec.	8260B 8260B 8260B	12/10/07 12/10/07 12/10/07	1 1 1

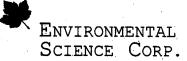
BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

ESC Sample # :

L322336-27

Date Received Description.

December 06, 2007 LE Carpenter - Wells

Site ID :

Sample ID

MW-30D

Project # : 6527.24

Collected By : Collection Date :

JO/SM 12/05/07 14:50

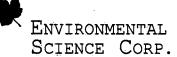
Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate Nitrite Sulfate	BDL BDL 11000	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/07/07 12/07/07 12/07/07	1 1 1
Methane, Total Ethane, Total Ethene, Total	BDL BDL BDL	10. 10. 10.	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/07/07 12/07/07 12/07/07	1 1 1
Ammonia Nitrogen	240	100	ug/l	350.1	12/11/07	1
Phosphorus, Total	110	. 100	ug/l	365.1	12/10/07	1
Dissolved Solids	300000	10000	ug/l	2540C	12/12/07	1
Suspended Solids	20000	1000	ug/l	2540D	12/11/07	· 1
Lead, Dissolved	BDL	5.0	ug/l	6010B	12/10/07	.1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery	BDL BDL BDL BDL	1.0 5.0 1.0 3.0	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/10/07 12/10/07 12/10/07 12/10/07 12/10/07	1 1 1 1
Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	97.4 97.9 87.6		% Rec. % Rec. % Rec.	8260B 8260B 8260B	12/10/07 12/10/07 12/10/07	1 1 1
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	BDL	1.1	ug/l	8270C	12/10/07	11
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	66.5 74.7 86.9		% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/10/07 12/10/07 12/10/07	1.1 1.1 1.1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

ESC Sample # : L322336-28

Date Received : Description

December 06, 2007 LE Carpenter - Wells

Site ID :

Sample ID

TRIP BLANK

Project # : 6527.24

Collected By : Collection Date : JO/SM

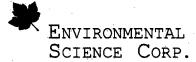
12/05/07 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/10/07	. 1
Toluene	BDL	5.0	ug/l	8260B	12/10/07	ī
Ethylbenzene	BDL	1.0	uq/l	8260B	12/10/07	. 1
Total Xylenes	BDL	3.0	ug/l	8260B	12/10/07	ī
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/10/07	· ī
Surrogate Recovery			3	,		
Toluene-d8	97.0		% Rec.	8260B	12/10/07	· 1
Dibromofluoromethane	97.3		% Rec.	8260B	12/10/07	ī
4-Bromofluorobenzene	87.7		% Rec.	8260B	12/10/07	ī

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL) Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer-Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

ESC Sample # : L322336-29

Date Received Description

December 06, 2007 LE Carpenter - Wells

Site ID :

Sample ID

ATM-01

Project # : 6527.24

Collected By : Collection Date :

JO/SM 12/05/07 10:10

					,	
Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	12/07/07	1
Nitrite	BDL	100	ug/l	9056	12/07/07	1
Sulfate	BDL	5000	ug/l	9056	12/07/07	1
Methane, Total	BDL	10.	ug/l	3810/RSK17	12/07/07	. 1
Ethane, Total	BDL	10.	uq/l	3810/RSK17	12/07/07	1
Ethene, Total	BDL	10.	ug/l	3810/RSK17	12/07/07	1
Ammonia Nitrogen	160	100	ug/l	350.1	12/11/07	1
Phosphorus, Total	BDL	100	ug/l	365.1	12/10/07	1
Dissolved Solids	BDL	10000	ug/l	2540C	12/12/07	1
Suspended Solids	BDL	1000	ug/l	2540D	12/10/07	1
Lead, Dissolved	BDL	5.0	ug/l	6010B	12/10/07	1
Benzene	BDL	1.0	ug/l	8260B	12/10/07	1
Toluene	BDL	5.0	ug/1	8260B	12/10/07	·1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/10/07	· ī
Total Xylenes	BDL	3.0	ug/1	8260B	12/10/07	ī
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/10/07	1
Surrogate Recovery			- 3		,_,,,,,	-
Toluene-d8	100.		% Rec.	8260B	12/10/07	1
Dibromofluoromethane	97.2		% Rec.	8260B	12/10/07	ī
4-Bromofluorobenzene	91.6		% Rec.	82.60B	12/10/07	i
Base/Neutral Extractables	•		. •	•		
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	12/11/07	1
Surrogate Recovery	,		-9/-		*=/11/0/	_
Nitrobenzene-d5	62.3		% Rec.	8270C	12/11/07	1
2-Fluorobiphenyl	71.0		% Rec.	8270C	12/11/07	1
p-Terphenyl-d14	88.9	*	% Rec.	8270C	12/11/07	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received Description

December 07, 2007 LE Carpenter - Wells

Sample ID

MW-27S

Collected By : Collection Date :

JO/SM 12/06/07 08:07

ESC Sample # : L322336-30

Site ID :

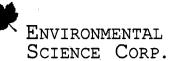
Project # : 6527.24

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate Nitrite	160 BDL	100 100	ug/l ug/l	9056 9056	12/07/07 12/07/07	.1
Ammonia Nitrogen	450	100	ug/l	350.1	12/12/07	1
Phosphorus, Total	BDL	100	ug/l	365.1	12/10/07	· 1
Dissolved Solids	630000	10000	ug/l	2540C	12/12/07	1
Lead, Dissolved	BDL	5.0	ug/l	6010B	12/11/07	1
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	BDL	1.4	ug/l	8270C	12/11/07	1.4
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	70.3 75.1 84.8	·	% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/11/07 12/11/07 12/11/07	1.4 1.4 1.4

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) Note:

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

January 18,2008

ESC Sample # :

L322336-31

12/11/07

12/11/07

12/11/07 12/11/07

1.2

1.2

1.2

1.2

Date Received Description

December 07, 2007 LE Carpenter - Wells

Site ID :

Sample ID

MW-30T

Project # : 6527.24

Collected By Collection Date :

Nitrobenzene-d5

p-Terphenyl-d14

2-Fluorobiphenyl

JO/SM

12/06/07 09:55

Parameter Result Det. Limit Units Method Date Dil. ug/l ug/l Nitrate BDL 100 9056 12/07/07 ٦ Nitrite BDL 100 9056 12/07/07 Sulfate BDL 5000 ug/l 9056 12/07/07 Methane, Total BDL 10. ug/l 3810/RSK17 12/11/07 1 Ethane, Total Ethene, Total BDL 10. 3810/RSK17 12/11/07 12/11/07 ua/l 1 BDL 10. ug/l 3810/RSK17 Ammonia Nitrogen 1100 100 ug/l 350.1 12/12/07 1 Phosphorus, Total 450 100 365.1 ug/l 12/10/07 Dissolved Solids 530000 10000 ug/l 2540C 12/13/07 Suspended Solids 69000 1000 ug/l 2540D 12/12/07 Lead, Dissolved BDL 5.0 úġ/1 6010B 12/11/07 Benzene BDL 1.0 ug/l 8260B 12/10/07 Toluene BDL 5.0 ug/1 8260B 12/10/07 Ethylbenzene BDL 1.0 ug/l 8260B 12/10/07 Total Xylenes Methyl tert-butyl ether BDT. 3.0 ug/l 8260B 12/10/07 1 BDL ug/l 8260B 12/10/07 Surrogate Recovery Toluene-d8 100. % Rec. 8260B 12/10/07 1 Dibromofluoromethane 97.0 % Rec. 8260B 4-Bromofluorobenzene 91.6 % Rec. 8260B 12/10/07 1 Base/Neutral Extractables
Bis(2-ethylhexyl)phthalate
Surrogate Recovery

1.2

ug/1

% Rec.

% Rec.

₹ Rec.

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(POL) Note:

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BDL

78.5

81.8

84.2

Reported: 12/24/07 14:59 Revised: 01/18/08 13:03

8270C

8270C 8270C

8270C



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde

RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

ESC Sample # : L322336-32

Date Received Description

December 07, 2007 LE Carpenter - Wells

Sample ID

MW-30S

Collected By : Collection Date :

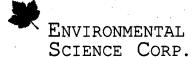
JO/SM 12/06/07 11:43 Site ID: ŊJ

Project # : 6527,24

•		•				
Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate Nitrite Sulfate	BDL BDL BDL	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/07/07 12/07/07 12/07/07	1 1 1
Methane, Total Ethane, Total Ethene, Total	1900 BDL BDL	100 100 100	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/11/07 12/11/07 12/11/07	10 10 10
Ammonia Nitrogen	1300	100	ug/l	350.1	12/12/07	1
Phosphorus, Total	220	100	ug/l	365.1	12/10/07	1
Dissolved Solids	520000	10000	ug/l	2540C	12/13/07	1
Suspended Solids	120000	1000	ug/l	2540D	12/12/07	1
Lead, Dissolved	BDL	5.0	ug/1	6010B	12/11/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery	1.5 110 34. 260 BDL	5.0 25. 5.0 15. 5.0	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/11/07 12/11/07 12/11/07 12/11/07 12/11/07	5 5 5 5 5
Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	95.8 93.0 107.		% Rec. % Rec. % Rec.	8260B 8260B 8260B	12/11/07 12/11/07 12/11/07	5 · 5 5
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	200	12.	ug/l	8270C	12/12/07	12
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	63.7 69.7 254.	•	% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/12/07 12/12/07 12/12/07	12 12 12

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

January 18,2008

ESC Sample # : L322336-33

Date Received Description

December 07, 2007 LE Carpenter - Wells

Site ID : NJ

Sample ID

MW-28I

Project # : 6527.24

Collected By Collection Date :

JO/SM 12/06/07 09:41

Result Det. Limit Parameter Units Method Date Dil. Nitrate BDL 100 9056 12/07/07 ug/l 100 Nitrite BDT. ug/l 9056 12/07/07 Sulfate 5100 5000 ug/l 9056 12/07/07 1 Methane, Total Ethane, Total Ethene, Total 370 10. üg/l 3810/RSK17 12/11/07 1 BDL 10. 3810/RSK17 12/11/07 ug/l 1 BDL 10. ug/l 3810/RSK17 12/11/07 Ammonia Nitrogen 470 100 350.1 12/13/07 ug/l 1 Phosphorus, Total 640 100 ug/l 365.1 12/12/07 1 Dissolved Solids 360000 10000 ug/l 2540C 12/13/07 1 Suspended Solids 34000 1000 ug/l 2540D 12/12/07 Lead, Dissolved BDL 5.0 ug/l 6010B 12/11/07 1 Benzene BDL 1.0 8260B ug/l 12/10/07 Toluene BDL 5.0 8260B ug/l 12/10/07 Ethylbenzene BDL 1.0 ug/l ug/l 8260B 12/10/07 Total Xylenes BDL 8260B 12/10/07 12/10/07 1 Methyl tert-butyl ether BDL 1.0 ug/l 8260B 1 Surrogate Recovery Toluene-d8 96.5 % Rec. 8260B 12/10/07 1 Dibromofluoromethane 99.0 Rec. 8260B 12/10/07 1 4-Bromofluorobenzene 95.4 & Rec. 8260B 12/10/07 Base/Neutral Extractables
Bis(2-ethylhexyl)phthalate 1.4 1.3 ug/l 8270C 12/11/07 1.3 Surrogate Recovery Nitrobenzene-d5 77.8 % Rec. 8270C 12/11/07 1.3 1.3 1.3 2-Fluorobiphenyl p-Terphenyl-d14 82.1 Ŕec. 8270C 12/11/07 91.0 % Rec. 8270C

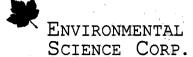
BDL - Below Detection Limit

Det. Limit -Practical Quantitation Limit (PQL)

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

December 07, 2007 LE Carpenter - Wells

ESC Sample # : L322336-34

Date Received Description

Site ID: NJ

Sample ID

MW-285

Project #: 6527.24

Collected By Collection Date : JO/SM 12/06/07 11:33

Result Det. Limit Units Parameter Dil. Method Date Nitrate BDL 100 9056 12/07/07 ug/l Nitrite Sulfate BDL. 100 ug/l 9056 12/07/07 BDL 5000 ug/l 9056 12/07/07 1 Methane, Total Ethane, Total Ethene, Total 1900 40. ug/l 3810/RSK17 12/11/07 3810/RSK17 3810/RSK17 12/11/07 12/11/07 BDL 40. ug/l 40. BDT. ug/l Ammonia Nitrogen 190 100 ug/l 350.1 12/13/07 1 Phosphorus, Total 380 100 ug/l 365.1 12/12/07 Dissolved Solids 330000 10000 ug/l 2540C 12/13/07 1 Suspended Solids 42000 1000 ug/l 2540D 12/12/07 Lead, Dissolved BDT. 5.0 6010B ug/l 12/11/07 Benzene BDL 1.0 8260B 12/10/07 ug/1 Toluene BDL 5.0 ug/l 8260B Ethylbenzene Total Xylenes 1.0 12/10/07 32. ug/l 8260B 96. ug/l 8260B Methyl tert-butyl ether BDL 1.0 ug/l 8260B 12/10/07 7 Surrogate Recovery Toluene-d8 98.8 % Rec. 8260B 12/10/07 Dibromofluoromethane 97.2 % Rec. 8260B 12/10/07 4-Bromofluorobenzene 96.6 & Rec. 8260B 1 12/10/07 Base/Neutral Extractables Bis(2-ethylhexyl)phthalate 14. 1.2 ug/l 8270C 12/11/07 1.2 Surrogate Recovery Nitrobenzene-d5 71.8 8270C % Rec. 12/11/07 1.2 2-Fluorobiphenyl 81.9 Rec. 8270C

BDL - Below Detection Limit

p-Terphenyl-d14

Det. Limit -Practical Quantitation Limit(PQL)

Note:

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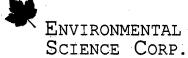
90.8

Reported: 12/24/07 14:59 Revised: 01/18/08 13:03

8270C

12/11/07

1.2



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18,2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received Description

December 07, 2007 LE Carpenter - Wells

Sample ID

Collected By : Collection Date :

JO/SM 12/06/07 12:30

ESC Sample # : L322336-35

Site ID : NJ

Project # : 6527.24

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate Nitrite Sulfate	BDL BDL BDL	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/07/07 12/07/07 12/07/07	1 1 1
Methane, Total Ethane, Total Ethene, Total	BDL BDL BDL	10. 10. 10.	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/11/07 12/11/07 12/11/07	1 1 1
Ammonia Nitrogen	BDL	100	ug/l	350.1	12/13/07	. 1
Phosphorus, Total	BDL	100	ug/l	365.1	12/12/07	. 1
Dissolved Solids	BDL	10000	ug/l	2540C	12/14/07	1
Suspended Solids	BDL	1000	ug/l	2540D	12/12/07	1
Lead, Dissolved	BDL	5.0	ug/l	6010B	12/11/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery	BDL BDL BDL BDL	1.0 5.0 1.0 3.0 1.0	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/10/07 12/10/07 12/10/07 12/10/07 12/10/07	1 1 1 1
Toluene-d8 Dibromofluoromethane 4-Bromofluorobenzene	97.2 95.7 93.8	·	% Rec. % Rec. % Rec.	8260B 8260B 8260B	12/10/07 12/10/07 12/10/07	1 1 1
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery Nitrobenzene-d5	2.7 71.2	1.0	ug/l % Rec.	8270C 8270C	12/11/07	1
2-Fluorobiphenyl p-Terphenyl-d14	75.0 85.8	•	% Rec. % Rec.	8270C 8270C	12/11/07 12/11/07	1 1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde

RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

ESC Sample # : L322336=36

Date Received Description

December 07, 2007 LE Carpenter - Wells

Site ID :

January 18,2008

Sample ID

Project # : 6527.24

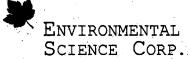
Collected By : Collection Date :

JO/SM 12/06/07 14:32

Parameter	Result	Det. Limit	Units	Method	Date	<u>D</u> il.
Nitrate Nitrite Sulfate	170 BDL BDL	100 100 5000	ug/l ug/l ug/l	9056 9056 9056	12/07/07 12/07/07 12/07/07	1 1 1
Methane, Total Ethane, Total Ethene, Total	BDL BDL BDL	10. 10. 10.	ug/l ug/l ug/l	3810/RSK17 3810/RSK17 3810/RSK17	12/11/07 12/11/07 12/11/07	1 1 1
Ammonia Nitrogen	BDL	100	ug/l	350.1	12/13/07	1
Phosphorus, Total	BDL	100	ug/l	365.1	12/12/07	. 1
Dissolved Solids	11000	10000	ug/l	2540C	12/13/07	1
Suspended Solids	BDL	1000	ug/l	2540D	12/12/07	1
Lead, Dissolved	BDL	5 . Ó.	ug/l	6010B	12/11/07	1
Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Surrogate Recovery	BDL BDL BDL BDL	1.0 5.0 1.0 3.0	ug/l ug/l ug/l ug/l ug/l	8260B 8260B 8260B 8260B 8260B	12/10/07 12/10/07 12/10/07 12/10/07 12/10/07	1 1 1 1
Toluene-d8 Dibromoflüoromethane 4-Bromofluorobenzene	97.9 98.7 95.0		% Rec. % Rec. % Rec.	8260B 8260B 8260B	12/10/07 12/10/07 12/10/07	1 1 1
Base/Neutral Extractables Bis(2-ethylhexyl)phthalate Surrogate Recovery	BDL	1.0	ug/l	8270C	12/11/07	. 1
Nitrobenzene-d5 2-Fluorobiphenyl p-Terphenyl-d14	62.2 73.5 85.6		% Rec. % Rec. % Rec.	8270C 8270C 8270C	12/11/07 12/11/07 12/11/07	1 1 1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

January 18, 2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

December 07, 2007 LE Carpenter - Wells

ESC Sample # : L322336-37

Date Received Description

Site ID :

Sample ID

TRIP BLANK

Project # : 6527.24

Collected By : Collection Date :

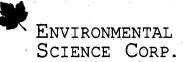
JO/SM

12/06/07 00:00

		· ·				
Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/10/07	1
Toluene	BDL	5.0	ug/l	8260B	12/10/07	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/10/07	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/10/07	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/10/07	1
Surrogate Recovery						
Toluene-d8	955		<pre>% Rec.</pre>	8260B	12/10/07	1
Dibromofluoromethane	95.6		% Rec.	8260B	12/10/07	1
4-Bromofluorobenzene	93.1	•	% Rec.	8260B	12/10/07	. 1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18, 2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

ESC Sample # : L322336-38

Date Received Description : December 07, 2007 LE Carpenter - Wells

Site ID : ŊJ

Sample ID

MW-30I

Collected By : JO/SM Collection Date : 12/05/07 09:55

Project # : 6527.24

Parameter Result Det. Limit Units Dil. Method Date Standard Plate Count 470 1.0 CFU/ml 9215B 12/07/07

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/24/07 14:59 Revised: 01/18/08 13:03 L322336-38 (SPC) - subcontracted to Environmental Health Labs



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 18, 2008

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

December 07, 2007 LE Carpenter - Wells Date Received Description

Sample ID MW-30S

Collected By : JO/SM Collection Date : 12/05/07 11:43

ESC Sample # : L322336-39

Site ID : NJ

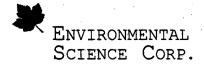
Project # : 6527.24

Result Parameter Det. Limit Units Method Date Dil. Standard Plate Count >5700 1.0 CFU/ml 9215B 12/07/07

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) Note: The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/24/07 14:59 Revised: 01/18/08 13:03 L322336-39 (SPC) - subcontracted to Environmental Health Labs



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

January 18, 2008

Date Received

Description

December 07, 2007 LE Carpenter - Wells

Sample ID

MW-28I

Collected By : Collection Date :

JO/SM 12/05/07 09:41 ESC Sample # : L322336-40

Site ID : NJ

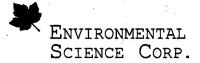
Project # :

6527.24

Det. Limit Units Parameter Result Method Date Dil. Standard Plate Count 160 1.0 CFU/ml 9215B 12/07/07 1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/24/07 14:59 Revised: 01/18/08 13:03 L322336-40 (SPC) - subcontracted to Environmental Health Labs



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

ESC Sample # : L322336-41

Date Received

January 18, 2008

Description

December 07, 2007 LE Carpenter - Wells

Site ID : NJ

Sample ID

MW-285

Project #: 6527.24

Collected By : Collection Date :

JO/SM

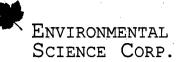
12/05/07 11:33

Parameter Result Det. Limit Units Method Date Standard Plate Count 320 1.0 CFU/ml 9215B 12/07/07

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) Note: The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/24/07 14:59 Revised: 01/18/08 13:03 L322336-41 (SPC) - subcontracted to Environmental Health Labs



Tax I.D. 62-0814289

L322336-42

Est. 1970

NJ

6527.24

REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

Date Received Description : December 07, 2007 LE Carpenter - Wells

Sample ID

Parameter

RB-01

JO/SM

Collected By : Collection Date :

12/05/07 12:30

Result

Det. Limit

1.0

Units

Method

January 18, 2008

ESC Sample # :

Date Dil.

Standard Plate Count

<1

CFU/ml

9215B

Site ID :

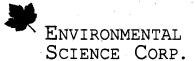
Project # :

12/07/07

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) Note: The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/24/07 14:59 Revised: 01/18/08 13:03 L322336-42 (SPC) - subcontracted to Environmental Health Labs



Tax I.D. 62-0814289

L322336-43

Date

Est.:1970

REPORT OF ANALYSIS

Mrs. Jennifer Overvoorde RMT, Inc - Grand Rapids, MI 2025 East Beltline Ave. SE Ste 402 Grand Rapids, MI 49546

January 18, 2008

ESC Sample # :

Project # :

Date Received Description

December 07, 2007 LE Carpenter - Wells

Sample ID

Collected By : Collection Date :

JO/SM 12/05/07 14:32

Det. Limit

Units Method

Site ID : NJ

Dil.

Standard Plate Count

<1

Result

1..0

CFU/ml 9215B 12/07/07

6527.24

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL) Note: The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/24/07 14:59 Revised: 01/18/08 13:03 L322336-43 (SPC) - subcontracted to Environmental Health Labs

Page 44 of 46

Attachment A List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L322336-15	Suspended Solids	J3.T4
L322336-20	Toluene	J6 [°]
L322336-30	Nitrate	T8
	Nitrite	T8
L322336-31	Nitrate	T8
	Nitrite	T8
L322336-32	p-Terphenyl-d14	J1
	Benzene	, J
L322336-33	Nitrate	. Т8
	Nitrite	T8

$\begin{array}{c} \textbf{Attachment B} \\ \textbf{Explanation of QC Qualifier Codes} \end{array}$

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
T4	(ESC) - Additional method/sample information: QNS - Quantity Not Sufficient
J3	The associated batch QC was outside the established quality control range for precision. $ \label{eq:control} % \begin{center} center$
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
T 8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Qualifier Report Information

- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

TSR Signing Reports: 044 R5 - Desired TAT

One L# and one Invoice per Project. In 8/22/07 5035 Only! No E's

```
Sample: L322336-01 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. - HAZSITE EDD
Sample: L322336-02 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
MS/MSD this sample. NJ Red. - HAZSITE EDD
Sample: L322336-03 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
         - HAZSITE EDD
Sample: L322336-04 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
         - HAZSITE EDD
NJ Red.
Sample: L322336-05 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
          HAZSITE EDD
Sample: L322336-06 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
         - HAZSITE EDD
Sample: L322336-07 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
          HAZSITE EDD
Sample: L322336-08 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
         - HAZSITE EDD
Sample: L322336-09 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
          HAZSITE EDD
NJ Red.
Sample: L322336-10 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. - HAZSITE EDD
Sample: L322336-11 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
        - HAZSITE EDD
NJ Red.
Sample: L322336-12 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
         - HAZSITE EDD
NJ Red.
Sample: L322336-13 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
         - HAZSITE EDD
NJ Red.
Sample: L322336-14 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
          HAZSITE EDD
NJ Red.
Sample: L322336-15 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. - HAZSITE EDD - changed sample ID from MW-19-7 per JO. ln 1/18/08
Sample: L322336-16 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
        - HAZSITE EDD
NJ Red.
Sample: L322336-17 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
          HAZSITE EDD
Sample: L322336-18 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
         - HAZSITE EDD
NJ Red.
Sample: L322336-19 Account: RMTGRMI Received: 12/05/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
         - HAZSITE EDD
NJ. Red.
Sample: L322336-20 Account: RMTGRMI Received: 12/06/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
MS/MSD Sample. NJ Red. -HAZSITE EDD
Sample: L322336-21 Account: RMTGRMI Received: 12/06/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. -HAZSITE EDD
Sample: L322336-22 Account: RMTGRMI Received: 12/06/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. -HAZSITE EDD
Sample: L322336-23 Account: RMTGRMI Received: 12/06/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. -HAZSITE EDD
Sample: L322336-24 Account: RMTGRMI Received: 12/06/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. -HAZSITE EDD
Sample: L322336-25 Account: RMTGRMI Received: 12/06/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. -HAZSITE EDD
Sample: L322336-26 Account: RMTGRMI Received: 12/06/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
         -HAZSITE EDD
Sample: L322336-27 Account: RMTGRMI Received: 12/06/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
         -HAZSITE EDD
Sample: L322336-28 Account: RMTGRMI Received: 12/06/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
         -HAZSITE EDD
Sample: L322336-29 Account: RMTGRMI Received: 12/06/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. -HAZSITE EDD
Sample: L322336-30 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
         -HAZSITE EDD
Sample: L322336-31 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. -HAZSITE EDD
Sample: L322336-32 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. -HAZSITE EDD
Sample: L322336-33 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. -HAZSITE EDD
Sample: L322336-34 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. -HAZSITE EDD
Sample: L322336-35 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
        -HAZSITE EDD
Sample: L322336-36 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
         -HAZSITE EDD
Sample: L322336-37 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red.
         -HAZSITE EDD
Sample: L322336-38 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59 NJ Red. -HAZSITE EDD
Sample: L322336-39 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
Sample: L322336-40 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RFI Date: 12/24/07 14:59
Sample: L322336-40 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59
NJ Red. -HAZSITE EDD - Subout to ENVHEALT - PO#S9884-1f 12/10
Sample: L322336-41 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59 NJ Red. -HAZSITE EDD - Subout to ENVHEALT - PO#S9884-1f 12/10
```

Sample: L322336-42 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59 NJ Red. -HAZSITE EDD - Subout to ENVHEALT - PO#S9884-1f 12/10 Sample: L322336-43 Account: RMTGRMI Received: 12/07/07 09:00 Due Date: 12/14/07 00:00 RPT Date: 12/24/07 14:59 NJ Red. -HAZSITE EDD - Subout to ENVHEALT - PO#S9884-1f 12/10

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2025 East Beltline Ave.	SE Ste 40	2										
Grand Rapids, MI 49546		_		<i>I</i> *		4.					Prepared by:	
Grand Rapids, Mr. 47540				, .	+ :							ON TON TON TO
		•						- P			₹ ENVIR	ONMENTAL
Report to: -Mr. Eric Vincke Mrs	s lennife	Em		nifer.overv	oorde@rn	ntinc.	SS					CE CORP.
Project Description: LE Carpenter	Ove	rvoorde	City/State				NoPres					banon Road , TN 37122
Phone: (616) 075 5415	Client Project #:		Lab Pn	•			+ 필	1CI			Phone (80	00) 767-5859
Phone: (616) 975-5415 PAX: (616) 975-1098	452	7.24	RM	TGRMI-6	52725		A.	-qı			FAX (6	515) 758-5859
collected by (print):	Site/Facility ID#	•	P.O.#:			<u>, </u>	12	40mlAmb-HC				
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mmediately acked on Ice N Y Muldlub	Two Day		.50% .25%	Email?N	lo Yes	No.	SV8270B)	V8260BTEX	9			M 110
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	Cntrs	S	V8,		451.0	Remarks/Contaminant	Sample # (lab only)
SW-D-1	Grob	GW		12/4/07	803	4	X	X				
SW-D-2		GW		12/4/07	743	4	X	X				
SW-D-3		GW		12/4/07	734	4	X	X				ing the security of
SW-D-4		GW	_	124107	85.7	4	X	X				
SW-D-5		GW		12/3/07	1648	4	X	X				1 29
DRC-2		GW		12/3/07	1640	4	X	X				in the second late.
SW-R-1		GW		12/3/07	1704	4	X	X				Principal Community of the Community of
SW-R-2		GW		12/4/07	908	4	X	X		1.00	· · · · · · · · · · · · · · · · · · ·	
SW-R-3	V	GW		2 4 07	912	4	X	X				
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eport to: Mrs. Tenville -Mr. Erie Vineke	- Overn	jorgé E	ier	nifer.overv	oorde@rn	ntinc.	SS					**	NCE CORP.
pject			City/Stat	e			Æ		Ř.				ebanon Road
escription: LE Carpenter				wha	uton 1	<i>N</i> 1	了						t, TN-37122
ione: (616) 975-5415	Client Project #:			roject#	·		Amk	H-				•	00) 767-5859
4X: (616) 975-1098	·	27.24	RN	TGRMI-65	52725		1.5	up-				FAX (615) 758-5859
ollected by (print):	Site/Facility ID#	!:	P:O.#				P.1	Y				1.20(1)	
olled by (signature)	Rush? ((Lab MUST B	•	Date Resul	ts Needed	1	SW8270BN-DEHP-11	40mlAmb-HC				Acctnum: RMTGI	RMI (lab usa only)
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icked on ice N Y				FAX? _N		No. of	27	8260BTEX		₹ 		Shipped Via: Fed	EX Ground
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	+Cntrs	128	V82					
)· · · · · · · · · · · · · · · · · · ·			Бори			ļ						Remarks/Contaminant	Sample # (lab only)
SW-R-4	Grab	GW	<u> </u>	12/4/07		4	Х	X					
SW-R-5		GW			617	4	X	X					100
SW-R-6		GW	ļ.,	Y	1003	· · · · ·	X	X					
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SM-D-9 WE WRD		GW	<u> </u>	12407	743	4	X	X					
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		GW	 	<u> </u>	·	4	X	X					
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flatrix SS - Soil GW - Groundwater WW -	WasteWater D	W - Drinking W	ater OT - Oth	er	1 or						pH	Temp	
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Relinquished by (Signature)	Date:	Time:		red by: (Signatur		· · ·			AL F	edEx □Co	ourier 🔲 Bottles Receiv	ed .	
				7.7	∀ ′ ∖						Some Note	GOC Seaf Intact	Y N NA
Relinquished by (Signature)	Date:	Time:	Receive	d for lab by: (Sig	gnature)				Date:		Time	pH Checked:	NCF
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	Alternate billing i	information:			Analy	/sis/Cor	ntainer	<u>/Prese</u>	rvativ	e		in of Custody	
RMT, Inc - Grand Rapid	ds, MI	÷											egeof *
			•										·
2025 East Beltline Ave. SE St	te 402												1,
Grand Rapids,MI 49546													Prepared by:
						100							Environmental
Report to: Mrs Jennifer Over	voorde	Email:	nifer.overv	oorde@rn	ıtine.	oPre	86	S	10			•	SCIENCE CORP.
Project Description: LE Carpenter	·		i Whar			Ethere 40mL4mb-N	25mlHDPE-NoPres	125mlHDPE-NoPres	NOS	Se			12065 Lebanon Road Mt. Juliet, TN 37122
Client F	Project #:	Lab P	roject #				圖	E.	田田	oPr.	Se		Phone (800) 767-5859
Phone: (616) 975-5415 FAX: (616) 975-1098	6527.2	24 RM	TGRMI-6	52725		40m	田田	HDP	-Ad	E-N	NoP	S	FAX (615) 758-5859
1.70/211 NJ	cility ID#:	P.O.#:				hene m IH	25ml	.5ml		HDP	q m	loPre	112 // Very 31 201 11 10 10 10 10 10 10 10 10 10 10 10 1
	ish? (Lab MUST me Day		Date Resul	lts Needed			e		田田	0m[IL.A	PE N	Acconum: RMTGRMI (lab lise only)
Immediately — Nex	xt Day				-	han oho	身	ii.	20(\$ 50	35	Ð	Template/Prelogin T41528/ P227498 Cooler#
Lucked on rec 11 1	o Day		Email?N		No. of	Meth, Ethane NH3.T. Phos	ate, l	Nitrate, Nitrite	PBDICP 500mIHDPE-Add HNOS	SO4, TDS 500mIHDPE-NoPres	SV8270BN IL-Amb-NoPres	TSS 1L-HDPE NoPres	Shipped Via: Fed EX Ground
Sample ID Comp/G	Grab Matrix*	Depth	Date	Time	Cntrs	Me	遏	Nit	PBI	7OS	λs	TSS	Remarks/Contaminant Sample # (lab only)
MW-19-7 Gro	ub GW		12/4/07	1618	11	XX	X		X	X	X	X	
MW-19-12	GW			1423	11	X X	X		X	X	X	X	1100 100 100 100 100 100 100 100 100 10
MW-19-4	GW		1	17/0	11	XX	X		X	X	X	X	
Pup-02 +	GW				11	XX	X		X	X	X	X	
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				'			,,,,			CON		-c.460	COC Seal Intage: Y N NA
Relinquished by (Signature)	Date: Time	: Received	for lab by: (Si	gnature)				ate:	Air I	Time	9)		ipH Checked: NCF

		Â	Iternate billing	information:			An	<u>alysis/Conta</u>	<u>iner/Preser</u>	vative		in of Custody
RMT, nc - Grand 1	Rapids, I	MI					344	1		i Par		of
2025 Foot Politing Assa	OF CA. AC											
2025 East Beltline Ave.		12					2.0		194			•
Grand Rapids,MI 49546)										Prepared by:	
			• .							. 72	₩ Envii	RONMENTAL
Report to: Mr. Eric Vincke	Jennifor	•	Email:	nnifer.over	voorde@rr	ntine					Scie	NCE CORP.
Project:		rvoorde	City/Sta	te	voor acagri	mune.					į.	ebanon Road
Description: LE Carpenter			Collecte	A	ton nj		ᄀ				Mt. Julie	et, TN 37122
Phone: (616) 975-5415	Client Project #		Lab F	Project #	~, , , , ,						Phone (8	800) 767-5859
FAX: (616) 975-1098	652	7.24	RN	MTGRMI-	552725		Į.				FAX ((615) 758-5859
Collected by (print): JO/SM	Site/Facility ID#		P.O.#	÷) 	OF C		eson.		
collected by (signature) 3 cott multiplessol	Same Day	(Lab MUST B	200%	Date Resi	ults Needed		XM4				Acctnum: RMTG)	RMI ^{((lab. use brily)} 41528/P227498
immediately Packed on Ice N Y X	1			Email?	No _Yes	- No	3.11		225		Cooler#	11320 1 22 (H20
acked on ite iv i A_					No _Yes	No. of	1097			, i	Shipped Via: Fed	EX Ground
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	Cntrs	78.				Remarks/Contaminan	t Sample # (lab only)
MW-19-7	6rab	GW		12/4/0	7 1618	11	X					Committee being
mw-19-12		GW			1423	11	X					
mw-19-4		GW			1710	11	X	10.55				10.17.1460.146
Dup-02	V	GW		Y		11	X					Propagation 1
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	*		<u> </u>									
*Matrix: SS - Soil GW - Groundwater WW	- WasteWater D	W - Drinking Wa	ater OT - Oth	er						рН	Temp	
Remarks: Dissolved Lead to be field	filtered.	ě								. Pr.	remp	
<u>.</u> 3										Flow	Other _	·
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Relinquished by: (Signature)	Date:	Time:		ved by: (Signat	ure)			Samp	oles returned	via: ∐UPS	Condition:	(lab use only)
Cachemoodl	12/4/			1 EX	5			Ø F	edEx 🗆 Cou	rier 🔲		
Relinquished by (Signature)	Date:	Time:	Receiv	ved by: (Signat	(9)			Ţemp		Bottles Receiver		erang in dikin
Relinquished by (signethe)	Date:	Time:	Receive	d for lab by: (S	\ lgnature)			" Date	100	Time:	COC Seal Intact	Y N NA
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		Al	ternate billing	informat	ion:			A	nalysis/Contair	er/Preserv	ative		in of Custody	
RMT, inc - Grand	Rapids, N	VII .											ge of	
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2025 East Beltline Ave	. SE Ste 40	2												, -
Grand Rapids, MI 4954	6						•					Prepared by:		÷
iř.												M ENVIE	RONMENTAL	
	<u></u>			,								- '	2 2	, ,•
Report to: Mr. Frie Vineke	er Overn	wal E	mail:			1.0						SCIEN	NCE CORP. 🚓	
Project			Jen City/Stat		overvo	orde@rn	ntinc.	-				12065 Le	ebanon Road	
Description: LE Carpenter			Collecte		har	ton ,	VD					Mt. Julie	t, TN 37122	٠.
Phone: (616) 975-5415	Client Project #		Lab P	roject#	1 12-1	1011 /	, ,	무丁	+.			Phone (8	00) 767-5859	
FAX: (616) 975-1098	650	7,24	RA	ATGR	MI-65	2725		自				FAX (615) 758-5859	
Collected by (print):	Site/Facility ID#	 	P.O.#		1711-05	2,123		- PI						
	NJ Buch2	(Lab MUST Be				· -		∱64						•
Collected by (signature):	I	(Lab 191031 D	•	Date	Result	s Needed		Z				Acctnum: RMTGI		
Immediately	I							E				Template/Prelogin ${f T}$	41528/P227498	
Packed on Ice N Y						YesYes	No.	區				Coeler#:	the sequence of	
	Three Day .		25%	FAX	?No	Yes	of Cntrs	V8260BTEXM				Shipped Via: Fed	EX Ground	
Sample ID	Comp/Grab	Matrix*	Depth	Da	ate	Time	Onus	8/				, Remarks/Contaminant	Sample # (lab only)	-
MW-19	Grab	GW		We	167	1509	11	X			1.28			
MW-194 MS/MSD		GW				1509	11	X						
MW-19-5		GW				1142	11	X						
-MW-19-6- Dup-03		GW					11	X						
MW-19-7		GW	<u> </u>			0858	+	X						
MW-19-12 - 295		GW	† 	1		952	11	X					1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	
MW-25(R)		GW	1.	11		1145	11	X			4.		2 (1.00 pt 1.00	
MW-27S		GW		 		1625		X			F-12		1 11 11 11	
MW-286 30D	1/	GW		V		1450	+	X						
			<u> </u>	! <u>'</u>		1 1	41					Д		
*Matrix: SS - Soil GW - Groundwater W		W - Drinking Wa	ater OT - Oth	er							pH	Temp		
Remarks: Dissolved Lead to be fiel	d filtered.										Flow	Other		
4 	•		•								1.10M	Oillei _		
dia .												•		
Relinquished by: (Signature)	1 Deter	I Time:	I Donali	roellers (_								
et) venverdo	Date 12/5	107 Time:		gu by: (Signatur	e)				les returned edEx⊡Coui	via: ⊔ UPS ier □	Condition	(lab use only)	
Relinquished by (Signature)	Date:	Time:		red by: (Signatur]			A mp.		Bottles Receiv	edi .		
				4		•							A Y N NA	
Relinquished by a (Signature)	Date:	Time:	Receive	d for lab	by (Sig	nature)		5 07.3	A CONTRACTOR OF THE STATE OF TH		Time:	pH Checked:	NGE:	
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to the second se		.Al	ternate billing i	information:			A	nalys	sis/Con	tainer	/Prese	rvativ	<u>ve</u>			nin of Custody
RM1, Inc - Grand R	Rapids, I			. 1												ge of
			•				7						4			
2025 East Beltline Ave.		2	•										ani s			
Grand Rapids, MI 49546															Prepared by:	i
	_						88									ONMENTAL
Report to: VIII. Eric Vinicke	. Oven	vovele =	mail: jen	nifer.overv	oorde@rr	ntinc.	46Pr	_	es	SS					. 5	CE CORP.
Project Description: LE Carpenter			City/Stat Collecter	Wha	oton,	NZ	40m1Amb=NoP	250m1HDPE-H2SO4	HDPE-NoPres	125mlHDPE-NoPres	NO	res	2.3		1	oanon Road TN 37122
Phone: (616) 975-5415	Client Project #		Lab P	roject #			HIA HIA	E-E	E	Ä	I PI	loP	j.		Phone (80	0) 767-5859
FAX: (616) 975-1098	65	27,24	RN	TGRMI-6	52725		401	P.	且	Ä	-Ac	H.	2	g)	FAX (6	15) 758-5859
Collected by (print): 0 5m	Site/Facility ID#	E.	P.O.#			· · ·	t Sile	miH	Sm.	Smil	DPF	E E	Į Į	Pre		
Collected by (signature):	Rush?	(Lab MUST B	•	Date Resul	its Needed	1	e, Ett		ite 12		PBDICP 500m [HDPE-Add HNO3	500mIHDPE-NoPres	SV8270BN 1L-Amb-NoPres	1L-HDPE NoPres	Accinum: RMTGR	
Immediately	1—				 	4	har	Phos	見	Į.	20	S 5(盈	且	Template/Prelogin T4	1528 P22749ዩ የሚተ <i>የረ</i> ታ
Packed on Ice N Y	·			Email?N	_	No. of Cntrs	Meth, Ethane,	Ŧ,	rate,	Nitrate, Nitrite	DICP	SO4,TDS	8270	S 1L-	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	X Ground
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	Cities	Me	NH3	遠	Ä	ÞB	SO	≯s	TSS	Remarks/Contaminant	Sample # (lab only
MW-28I	Grab	GW		12/5/07		-11	×	X	X		X	X	Y	X.		
-MW-295-Trip Blank		GW				14	X	X	X		X	X	X	X		aus Selling
-MW-30S		GW				-11	X	X	X		X	X.	Y	X.	-	
-MW-30I- Am-Ol	Godo	GW		12/5/07	1010	11	X	X	X		×	X	X	X		
MW-30D-		GW				11	X	X	X		X.	X.	X_	X.	47-47-CA	
f a		GW				11	X	X	X		X	X	X	X		And I to
14 1:3		GW				11	X	X	X		X	X	X	X		
		GW			,	11	X	X	X,		X	X	X	X		(i) The second second of
		GW				11	X	X	X		X	X	X	X		4.7
*Matrix: SS - Soil GW - Groundwater WW	- WasteWater I	DW - Drinking W	ater OT - Oth	er				,				p)	H	. :	Temp	
Remarks: Dissolved Lead to be field	filtered.			• •								FI	ow		Other	
				•								• •				
						•						•			•	
Relinquished by: (Signature)	Date:	107 183C	Recei	ved by: (Signati	ure)				S				i: []	UPS	Condition:	CONTRACTOR OF THE PARTY OF THE
Relinquished by (Signature)	Date:	Time:		ved by: (Signati	X						Ex□C		ttles Re	cejve	s distribution de la company d	
	-2.0.				"		٠						uos i c		GOC Seal Intact	
Relinquished by (Signature)	Date:	Time:	Receive	d for lab by: (Si	gnaturė)	1000			9.000000	***********		*****	ne; ;		pH Checked	NGF
				200									111		Control of the contro	

			Alternate billin	g information:			A	nalys	is/Cor	taine	r/Pres	ervati	ve		in of Custody
RMT, nc - Grand	Rapids, I	MI		i i			700						*		in of Custody
2025 East Beltline Ave	OT: 04- 40				. 4		. 60								
		12													
Grand Rapids, MI 4954	6												1-4		Prepared by:
		,													ENVIRONMENTAL
Report to: Mrs	Jenn Her		Email:				Pre-								SCIENCE CORP.
Mr. Fric Vineke	Urer	Model		nnifer.over	oorde@ri	ntinc.	2	4	35	S	- 69				12065 Lebanon Road
Description: LE Carpenter	·			^{led} Whar	ton, N	7	4mb	250mIHDPE-H2SO4	PS.	125mIHDPE-NoPres	E	res	ø		Mt. Juliet, TN 37122
Phone: (616) 975-5415	Client Project #		<u> </u>	Project #		,	Te	표	PE	PE	몋	lo Po	Pe		Phone (800) 767-5859
FAX: (616) 975-1098	-	27,2	f R	MTGRMI-6	52725		40		量	Ð	Y	臣	2	δί	FAX (615) 758-5859
Collected by (print):	Site/Facility ID		P.O	#:	·		Telle	mIH	E	Sml	B	首		oPre	
Collected by (signature):	Rush? Same Day			Date Resu	ilts Needed		ie, Et		rite 12		PBDICP 500mIHDPE-Add HNO3	SO4, TDS 500mIHDPE-NoPres	SV8270BN IL-Amb-NoP	1L-HDPE NoPres	Acctnum: RMTGRMI (lab use only)
Immediately	1	• • • • • • • • • • • • • • • • • • • •				-	hai	Pho	遏	洁	28	\$ 5	Z	且	Template/Prelogin T41528/ P22749 Cooler # 41/39/67 Ac
Packed on Ice N Y 🔼				Email?		No. of	h, B	3,T. Phos	ate,]	Nitrate, Nitrite		E,	270]	1	Shipped Via: Fed EX Ground
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	Cntrs	Meth,	NH3,	氢	Nit	PBI	SO ₂	SV8	TSS	Remarks/Contaminant Sample # (lab on
MW-19	Good	GW		12/5/07	1509	11	X	X		X	X	X	X	X	
MW-19衛 MS/MSD	1	GW		,	1509	11			X		X	X	X	X	
MW-19-5		GW			1142	11	211101114101141		X		X	X	X	23	are employed a
-MW-19-6 DUP-03		GW			1	11			X		Х	X	X	X	
MW-19-7		GW			0858	11	X	X	X		X	X	X	a	The state of the s
MW-19-12 - 295		GW			952		X	X	X		X	X	X	X	
MW-25(R)		GW			1145	11	Х	X	X		X	X	X	X	Landing to the control
MW-27S		GW			1625	C	ᅠ∅	X	Œ.		X	(X)	X.	(X)	12 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MW-285 30 D	Y	GW		V	1450	11	X	X	X		X	X	X.		
*Matrix: SS - Soil GW - Groundwater W	N - WasteWater F	W - Drinking	Motor OT O	h				-			But Chickenson and		230000000000000000000000000000000000000		I De productivo de manda del productivo de manda del productivo de
the state of the s		A - Dankijg	Water O1 - Of	1161								p)	н		Temp_
Remarks: Dissolved Lead to be fiel	d filtered.			•								Fİ	ow		Other
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Relinquished by: (Signature)	Daje: 12/5	Time	Rece	ived by (Signat	ure)		· 'y		Sa		return			JPS	Condition: (lab use only)
Relinquished by (Signature)			Rece	red	广义				K		Ex□C				Complete Space (1911) The State of the State
Reiniquished by angulature)	Date:	Time	Rece	oived by: (Signati	(1)				Te	mp:		Bot	tles Re	ceive	
Relinquished by (Signature)	Date:	Time	Receiv	ed for lab by: (S	onature)										COC Seal Intact: Y N N NZ

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RMT		All	ternate Billi	ing Informatio	on			Analysis/	Container/F	reservative	<u> </u>	Chain of Custody Page 1 of 1
2025 E. Beltline Ste. 402	Ave. S	SE	Bill & Repo Science C	ort to Envir	onmental						Prepared by:	Page 1 of 1 ONMENTAL CE CORP. banon Road
Grand Rapids, M	/II 295 ₄	46	M	15 Jenn	ifer O	ena	de	Labs.				CE CORP.
,		Rei	port to:	-Mr. Eric				Health		-	12065 Le	banon Road
	•	Em	all to:	erie:vinke@	rmtine:cor			I He			Mt. Juliet,	TN 37122
	arpenter		City/Sate Collected		Jersey			menta) A 22 - 1 21 - 1 - 2		1	15) 758-5858 (00) 767-5859
Phone: 616-975-5415 FAX: 616-975-1098	Client Project 65	#: 27.26U	ESC Ke	y: RMTG	RMI-6527	25	Count	Environmental		i je u		515) 758-5859
Collected by: DSM	Site/Facility ID	D#:	P.O.#:	· ·				9	,	1		
Collected by (signature):		ab MUST Be ame Day	-	Date Resul	lts Needed:	No.	Heterotrophic Plate	ed out	-21.5 (F			Mi (lab use only).
Packed on Ice NY X	N	ext Day wo Day	100%	Email?I		of	otroph	Subbo			Template/Prelogin	144527
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	Cintra	Heter	To Be			Remarks/Contaminant	Sample # (lab only)
MW-19 MS/MSD	Grab	GW		12/5/07	1509		X					
	Grab	GW							45.			orași de la companii
4	Grab	GW										Street William
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	Grab	GW										
\$ \$	Grab	GW					43.					
	Grab	GW						Page 1				1000 Table 1000
	Grab	GW										
*Matrix: SS - Sol/Solid GW - Grou	ndwater W W	- WasteWater	r DW - Drin	king Water C	T - Other	<u> </u>				.pH	Temp	
Remarks:				•						Flow	Ott	ner
Relinquished by: (Signature)	12/5	107 TM83	Recent	ved by:/(Signa	ture)			Sam	ples returne edEx □ Cou	d via: UPS	Condition:	i (lab use only)
Relinquished by: (Signature)	Date:	Time:	Receiv	ved by: (Signa	ture) /			Tem	D'	Bottles Receiv		
Relinquished by: (Signature)	Date:	Time:	Rece	ived for lab by	/: (Signatur	e) :		Date	¥.	Time:	pH Checked:	NCF: 14

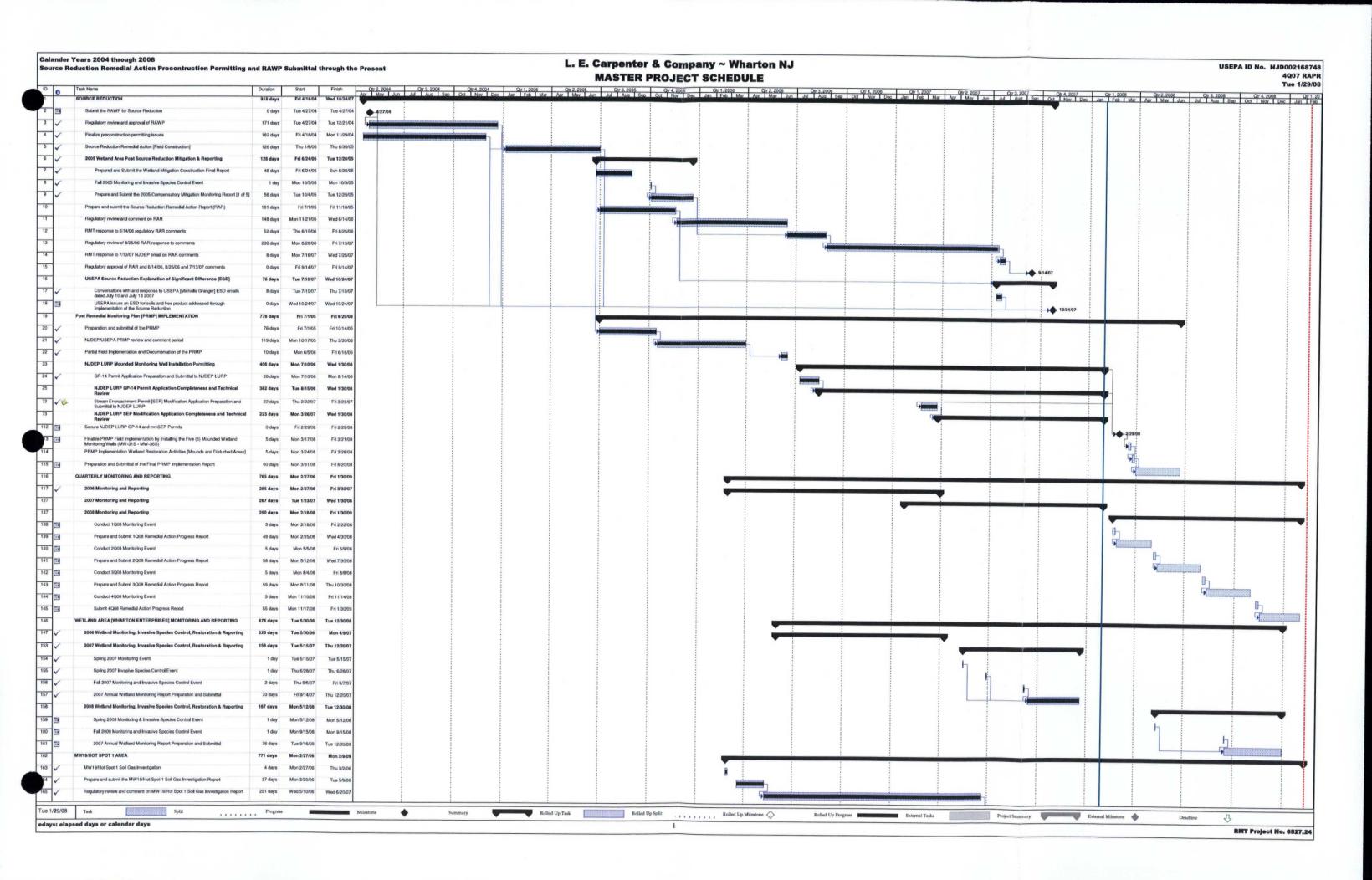
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RMT		Alte	ernate Billir	ng Informatio	on			Analysis	/Containe	r/Prese	ervative		Chain of Custody Page 1 of 1
2025 E. Beltline	Ave. S	SE B	ill & Repo	ort to Envir	onmental.						i i	Prepared by:	
Ste. 402	* .							SS.				1	ONMENTAL .
Grand Rapids, N	/II 295 ₄	46 Rep	ort to:	ennaer	Oven	00/0	¢	Lab			- 1 <u>1</u>	SCIEN	CE CORP.
				-MrEric	- Vinke-			Health					
		Ema	-9	ric,vinke@	rmtine.cor	n						Mt. Juliet,	TN 37122
Project Description: L.E. C	Carpenter		City/Sate Collected	New	Jersey			nent				1	15) 758-5858
Phone: 616-975-5415 FAX: 616-975-1098	Client Project 65	#: 527.2 54	ESC Key		RMI-6527	25	wint	Environmental			crt.		300) 767-5859 515) 758-5859
Collected by: 20 SM	Site/Facility II	D#:	P.O.#:				e Cc	.					
Collected by (signature):	s	ab MUST Be N Same Day	200%	Date Resul	Its Needed:	No.	Heterotrophic Plate Court	Subbed out				CoCode RMTGR Template/Prelogin	MI (lab use only) T41527
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Appendix E Project Schedule



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	NJDEP Review and Approval of the RASR			Tue 4/1/08																			
	Respond to regulatory comments on RASR	30 days	Wed 4/2/08	Tue 5/13/08													1:0000000000000000000000000000000000000		<u></u>				
1	Pitot Testing and Implement Approved Remedial Approach	120 days	Wed 5/28/08	Tue 11/11/08															4		888888888888		
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L. E. Carpenter & Company ~ Wharton NJ MASTER PROJECT SCHEDULE

USEPA ID No. NJD002168748 4Q07 RAPR Tue 1/29/08

72 Stream Encroachment Permit (SEP) Modification Application Preparation and Submitted to NJDEP LURP
Based on conversations, RMT decided to prepare the SEP permit modification application package we LURP written notice of requirement and GP-14 deficiencies. Needed to get SEP mod into LURP system to avoid more extensive delays.

Appendix F USEPA ESD

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 2 290 BROADWAY NEW YORK, NY 10007-1366

OCT 2 4 2007

Mr. Glenn Savary, Case Manager
New Jersey Department of Environmental Protection
Bureau of Case Management
CN 028
Trenton, New Jersey 08625

RE: Dayco Corporation/L.E. Carpenter Site. Superfund Site - Explanation of Significant

Differences

Dear Mr. Savary:

Enclosed, for your information, please find The United States Environmental Protection Agency's (EPA's) Explanation of Significant Differences (ESD) for the Dayco Corporation/L. E. Carpenter Superfund (L. E. Carpenter site or Site) Site, located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey, dated September 27, 2007.

EPA issues this ESD in accordance with Section 117(c) of the Comprehensive Environmental Response, Compensation & Liability Act of 1980 (CERCLA), as amended, 42 U.S. C Section 9617 (c), and section 300.435 (c) (2) (i) of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 C. F. R. Section 300.435 (c) (2) (i). The NJDEP concurred on this ESD through correspondence dated September 26, 2007.

Should you have any questions or need any additional information, please feel free to contact me at (212) 637-4975.

Sincerely yours,

Michelle Granger, Remedial Project Manager Southern New Jersey Remediation Section

Enclosure

cc: Chris Anderson, PolyOne Corporation

Nick Clevett, RMT, Senior Project Manager

Jim Dexter, RMT

Jon Rheinhardt, Borough of Wharton

EXPLANATION OF SIGNIFICANT DIFFERENCES

DAYCO CORPORATION/L.E. CARPENTER SITE

Site Name and Location

Dayco Corporation/L.E. Carpenter Company Wharton Borough Morris County, New Jersey

Introduction

The purpose of this Explanation of Significant Differences (ESD) is to explain the changes made by the New Jersey Department of Environmental Protection (NJDEP) and United States Environmental Protection Agency (EPA) to the remedy selected in the April 1994 Record of Decision (ROD) for the Dayco Corporation/L.E. Carpenter Company Superfund Site (L.E. Carpenter site or Site).

EPA issues this ESD in accordance with Section 117(c) of the Comprehensive Environmental Response, Compensation & Liability Act of 1980 (CERCLA), as amended, 42 U.S.C. §9617(c), and Section 300.435(c)(2)(i) of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 C.F.R. §300.435(c)(2)(i). The NJDEP concurred on this ESD through correspondence dated September 26, 2007.

The ESD and documents that provide the basis of the ESD decision will be incorporated into the Administrative Record for the Site in accordance with Section 300.825(a)(2) of the NCP. The Administrative Record is available for review during business hours at EPA Region 2, 290 Broadway, New York, NY 10007 and at the information repository in the NJDEP Offices in Trenton, New Jersey.

Summary of Site History, Contamination Problems, and Selected Remedy

The L.E. Carpenter site is located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey. The Site occupies approximately 14.6 acres, and is located northwest of the intersection of the Rockaway River and North Main Street.

The L.E. Carpenter site includes buildings, warehouses, and remnants of disposal areas that are associated with a former

vinyl wall covering manufacturing facility in Wharton Township.
L.E. Carpenter manufactured vinyl wall coverings from 1943 to
1987. The manufacturing process involved the generation of
various solid and liquid waste streams which were disposed of in
unlined on-site lagoons.

NJDEP conducted soil and groundwater sampling in 1980 and 1981. Sampling results indicated the presence of volatile organic compounds, base neutral compounds, metals, and PCBs. In addition, NJDEP observed immiscible chemical compounds floating on the groundwater table.

In response to the findings of these sampling efforts, in 1982, L.E. Carpenter and NJDEP entered into an Administrative Consent Order (ACO) in which L.E. Carpenter agreed to delineate and remove soil and groundwater contamination at the Site.

Pursuant to the 1982 ACO, L.E. Carpenter installed a groundwater monitoring system, constructed a floating product recovery system, and excavated approximately 4,000 cubic yards of sludge and contaminated soils from the former on-site lagoons. In addition, as part of NJDEP cleanup activities, L.E. Carpenter removed sixteen above ground storage tanks and associated contaminated soils.

The National Priorities List (NPL) is a list of sites eligible for long-term remedial evaluation and response under EPA's Superfund program. The Site was added to the NPL in April 1985. The Site is a state-lead site.

In September 1986, NJDEP and L.E. Carpenter entered into an Amended ACO which superseded the previous ACO. In accordance with the September 1986 ACO, L.E. Carpenter, the Potentially Responsible Party (PRP), began a site-wide remedial investigation to determine the nature and extent of contamination. The Remedial Investigation (RI) was conducted in several phases and completed in 1992. In 1993, a Feasibility Study (FS) was conducted to evaluate possible cleanup actions. NJDEP issued a ROD, with EPA concurrence, on April 18, 1994. The major components of the ROD are:

- Installation and operation of a floating product/groundwater extraction system;
- 2. Installation and operation of a groundwater pump and treat system, with a portion of the treated groundwater

to be recirculated within a capture zone, another portion to be discharged into a deeper aquifer in accordance with groundwater discharge criteria, and another portion to be treated via biological treatment;

- 3. Excavation and consolidation of bis (2-ethlyhexyl) phthalate (DEHP) contaminated soils into a soil treatment zone;
- 4. Reinfiltration of a portion of treated groundwater (with added oxygen and nutrients) into the unsaturated soil treatment zone via perforated piping to allow in-situ bioremediation of contaminated soils;
- 5. Installation of a vegetative soil cover for the area of the groundwater infiltration system;
- 6. Spot excavation and disposal of soils containing Polychlorinated biphenols (PCBs), lead and antimony, where levels exceed the soil cleanup levels in locations other than the east soils area designated as the disposal area;
- 7. Excavation of disposal area sludges/fill, which may inhibit in situ treatment; and
- 8. Establishment of environmental use restrictions on the property.

Post ROD Activities

Soils and Floating Product

Since the issuance of the 1994 ROD, a number of activities have taken place. In 1995, a site-wide delineation of lead impacted soils revealed that lead contamination was more extensive than previously anticipated. Lead was the most widespread contaminant in site soils. In December of 1997, the floating product removal system that was installed in 1982 was replaced with a new system, because removal of floating product occurred at a much slower pace than originally anticipated and had not yet been completed. After several years, the new floating product removal system was still found to be slow and inefficient.

Based on data collected after the ROD, NJDEP, EPA and L.E. Carpenter agreed that modifications to portions of the remedy related to soils and the floating product were warranted.

In April 2004, L.E. Carpenter submitted a work plan to NJDEP and EPA which proposed a more aggressive remedial approach than

anticipated in the ROD. The work plan included, but was not limited to, excavation and off-site disposal of a large on-site area containing floating product smear zone soils (visibly contaminated soils associated with floating product), and a more aggressive approach for excavation of lead contaminated soil to a level of 400 ppm. The aggressive approach to the cleanup resulted in achieving 0.49 ppm of PCBs in the soil, which is the New Jersey Residential Direct Contact Soil Cleanup Criteria. In December 2004, the NJDEP and EPA approved the work plan. The work performed by the PRP under this approved work plan is also known as the source reduction remediation.

Excavation of soil contaminated with lead and process wastes, floating product, and a PCB area began on January 27, 2005 and was completed in June 2005. The approximate amount of material excavated and removed off site for disposal during this phase of the remedial action was 46,521 tons, as follows: lead soils: 9,292 tons; process waste: 450 tons; and floating product smear zone soils (visibly contaminated soils associated with floating product) 34,052 tons; and PCB soils: 2,727 tons.

Description of the Significant Differences and the Basis for those Differences

This ESD addresses changes to the components of the remedy chosen in the 1994 ROD which called for floating product to be removed by an active removal system, the excavation and off-site removal of soils contaminated with lead at levels greater than 600 ppm, and the excavation and off-site removal of soils contaminated with PCB levels greater than 2.0 ppm.

With this document, EPA, after consultation with the NJDEP, modifies the selected remedy for the soils and groundwater as follows (item numbers below correspond to ROD components 1 through 8 listed on page 2):

- floating product and associated smear zone soils were excavated and disposed of off-site as an alternative to the active removal system selected in the ROD due to the low yield of floating product extraction system previously installed;
- 3. bis (2-ethlyhexyl) phthalate (DEHP) impacted soils were excavated and disposed of off-site instead of being consolidated into a soil treatment zone;

- 4. no reinfiltration of treated groundwater will be performed for the purpose of treating soil contamination, as all contaminated site soils were excavated to meet cleanup standards and disposed of off-site;
- 5. following implementation of the source reduction remediation, all disturbed areas were restored to proposed final grades with a vegetative soil cover. The ROD selected a vegetative cover over the area of groundwater infiltration;
- excavation and off-site disposal of soils containing PCBs and lead were completed to meet the more stringent New Jersey Residential Direct Contact Soil Cleanup Criteria (RDCSCC) (0.49 ppm and 400 ppm, respectively) instead of the Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) (2.0 ppm and 600 ppm, respectively) as required in the ROD;
- 7. all soils above site-established cleanup levels were excavated and disposed of off-site during the source reduction remediation, instead of the excavation of some soils and on-site treatment through flushing of other soils as selected in the ROD;
- 8. environmental use restrictions on the property as selected in the ROD are no longer needed since RDCSCC were met for PCBs and lead at the site.

It should be noted that while most of the site soils were excavated to levels below the water table, thereby removing all contaminants, there is a limited area of soils in the southwest corner of the site, called the B-2 area, where soils were excavated to a depth of 2 feet and the excavation was then backfilled with clean fill. Two post-excavation samples collected at the base of this excavation in this area exceeded the NJDEP residential soil cleanup goal for antimony of 14 ppm. The concentrations of antimony collected at the base of the excavation are well below NJDEP's non-residential cleanup goal, and are covered with two feet of clean soil. Based on a review of all post-excavation samples of this limited area, EPA and NJDEP have determined that the concentrations of antimony detected during the post-excavation sampling event do not

warrant environmental use restrictions on the property. A detailed evaluation of this issue is available for review in the site files.

Also, it should be noted that this ESD does not address any changes to component 2 of the ROD which relates to the groundwater portion of the remedy. Therefore, this ESD does not address any changes to the groundwater pump and treat system as required by the ROD. The purpose of the pump and treat system is to address the residual groundwater contamination after the floating product areas have been remediated. The pump and treat component of the remedy is currently being reevaluated. NJDEP's and EPA's review of the groundwater data indicate the potential for Monitored Natural Attentuation (MNA) to be an appropriate groundwater remedy for a portion of the groundwater contamination. In January 2005, L.E. Carpenter began to implement an MNA work plan to collect the required data to determine if MNA will be an effective remedy for this Site. NJDEP and EPA will evaluate the results of this ongoing MNA investigation and will determine, in the future, if MNA is the appropriate remedy for this Site. In addition, further investigations are ongoing to further evaluate an area of benzene, toulene, ethylbenzene and xylene (BTEX) contamination near the Monitoring Well - 19 (MW-19) portion of the site property. This area is not believed to be appropriately addressed by MNA and may need an alternate remedy.

State Comments

NJDEP concurs with EPA's revision to the remedy and decision to issue this ESD.

Affirmation of Statutory Determinations

EPA and NJDEP believe that the modified remedy remains protective of human health and the environment, complies with federal and state requirements that were identified on the ROD and this ESD as applicable or relevant and appropriate to this remedial action, and over the long-term is cost-effective. In addition, the revised remedy utilizes permanent solutions and alternative treatment technologies to the maximum extent practicable for this site.

Public Participation Activities

In accordance with the NCP, a formal public comment period is not required when issuing an ESD. However, EPA will announce the availability of the ESD in a local newspaper of general circulation. The ESD has been placed in the site file and the information repository at the NJDEP Offices in Trenton, New Jersey.

George Pavlou, Director Emergency & Remedial Response Division $\frac{9/27/c7}{\text{Date}}$

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